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FIRST EDITION

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Satisfaction Guarantee

As a leading manufacturer in the AV industry, we are committed to engineering and manufacturing our products to the highest standards of quality, performance, and value. From our advanced product design, manufacturing and quality control procedures to our friendly and knowledgeable support teams, our commitment to satisfy you is paramount. In every interaction with Extron, you can be confident you will receive our S3 commitment to Service, Support, and Solutions. For 30 years, our objective has been to ensure that every customer is completely satisfied with every purchase.

To underscore this commitment, we offer our Satisfaction Guarantee. This means we will work diligently to resolve any issue you have with your purchase until you are completely satisfied. Extron employees are prepared to do whatever it takes to make certain that the entire process of doing business with us is a positive and professionally rewarding experience for you.

I'm so confident in our ability to deliver on this pledge that I back it personally. If you are not satisfied with any part of your transaction with Extron, I want to know. Please contact me at president@extron.com. I will personally address any unresolved customer issue. We greatly appreciate your business. It is our intent to keep you as a customer for life.

Andrew C. Edwards

President

XTP SYSTEMS

A Completely Integrated Solution for Digital AV Switching and Distribution

Extron XTP Systems provide a completely integrated switching and distribution solution for multiple digital and analog formats. They support local connectivity as well as extended transmission capability for sending high resolution video, audio, RS-232, Ethernet, and power up to 330 feet (100 m) over a single CATx cable.

Easy to Set Up

XTP Systems can easily be set up and configured out of the box to save you time and money. Intuitive control software provides straightforward system configuration without complicated programming.

Performance

XTP Systems deliver extremely high switching and transmission performance to support a wide range of video formats, including the highest resolution DVI and HDMI signals. The high data-rate digital backplane designed into the XTP CrossPoint digital matrix switchers provides a truly future-ready AV integration solution.

Reliable

XTP Systems deliver robust system reliability and dependable switching of video signals through EDID and HDCP key management. Featuring advanced 24/7 system monitoring and hot-swappable modular components, XTP Systems are built for continuous, trouble-free operation in the most critical applications.

Flexible System Designs

XTP Systems let you easily integrate digital and analog devices into your system design. Connect and switch between local devices, or extend to remote locations up to 330 feet away using just a single CATx cable that carries video, audio, RS-232 or IR control, Ethernet, and power.

XTP Technologies

SPEED SWITCH

SpeedSwitch™ Technology provides exceptional switching speed for HDCP-encrypted content.

SD PRO PROCESSING

SD Pro processing provides deinterlacing of standard definition video to provide compatibility with HDMI and DVI-equipped displays, without the need for additional scalers.

EDID MINDER

EDID Minder® automatically manages EDID communication between connected devices, ensuring that all sources power up properly and reliably output content for display.

KEY MINDER

Key Minder® continuously verifies HDCP compliance for quick, reliable switching. It authenticates and maintains continuous HDCP encryption between input and output devices to ensure quick and reliable switching in professional AV environments, while enabling simultaneous distribution of a single source signal to one or more displays.

Learn more about Extron XTP Systems at **www.extron.com/xtp**

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DIGITAL VIDEO SYSTEMS

XTP CrossPoint 1600 Series

Modular Digital Matrix Switchers from 4x4 to 16x16 with SpeedSwitch™ Technology

The Extron XTP CrossPoint® 1600 provides flexible, reliable digital and analog video switching and distribution between local and remote endpoints. This modular matrix switcher is configurable from 4x4 up to 16x16 using a wide variety of available input and output boards. It sends high-resolution video, audio, RS-232, Ethernet, and power up to 330 feet (100 m) over a single CATx cable to remote XTP transmitters and receivers. The XTP CrossPoint 1600 also supports direct HDMI, DVI, VGA, video, and audio connections to local sources and displays. XTP Systems deliver robust signal routing and reliability with ultra-fast digital video switching and advanced system monitoring.

FEATURES

- Available in I/O sizes from 4x4 to 16x16
- 15.2 Gbps data-rate digital backplane
- Compatible with all XTP integrated system products
- Fully digital signal routing
- Wide selection of input and output boards
- RS-232 insertion from the Ethernet control port
- Remote power to XTP transmitters and receivers
- Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, and HD lossless audio formats
- HDCP compliant
- SpeedSwitch™ Technology provides exceptional switching speed for HDCP-encrypted content
- SD Pro processing provides deinterlacing of standard definition video
- EDID Minder® automatically manages EDID communication between connected devices
- Key Minder® continuously verifies HDCP compliance for quick, reliable switching
- Automatic color bit depth management
- Interface Format Correction
- Modular, field-upgradeable and hot-swappable design
- Audio breakaway
- Ethernet extension
- HDCP authentication and signal presence confirmation via RS-232 or Ethernet
- HDCP Visual Confirmation provides a green signal when encrypted content is sent to a non-compliant display
- Ethernet monitoring and control
- Optional redundant power supply

Model	Version Description	Part Number
XTP CrossPoint 1600 Frame	5U, 8-slot Frame	Call
XTP CrossPoint 1600 Frame w/RPS	5U, 8-slot Frame w/redundant power	Call

XTP CrossPoint 3200 Series

Modular Digital Matrix Switchers from 4x4 to 32x32 with SpeedSwitch™ Technology

The Extron XTP CrossPoint® 3200 provides flexible, reliable digital and analog video switching and distribution between local and remote endpoints. This modular matrix switcher is configurable from 4x4 up to 32x32 using a wide variety of available input and output boards. It sends high-resolution video, audio, RS-232, and Ethernet up to 330 feet (100 m) over a single CATx cable to remote XTP transmitters and receivers. The XTP CrossPoint 3200 also supports direct HDMI, DVI, VGA, video, and audio connections to local sources and displays. XTP Systems deliver robust signal routing and reliability with ultra-fast digital video switching and advanced system monitoring.

FEATURES

- Available in I/O sizes from 4x4 to 32x32
- 15.2 Gbps data-rate digital backplane
- Compatible with all XTP integrated system products
- Fully digital signal routing
- Wide selection of input and output boards
- RS-232 insertion from the Ethernet control port
- Remote power to XTP transmitters and receivers
- Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, and HD lossless audio formats
- HDCP compliant
- SpeedSwitch™ Technology provides exceptional switching speed for HDCP-encrypted content
- SD Pro processing provides deinterlacing of standard definition video
- EDID Minder® automatically manages EDID communication between connected devices
- Key Minder® continuously verifies HDCP compliance for quick, reliable switching
- Automatic color bit depth management
- Interface Format Correction
- Modular, field-upgradeable and hot-swappable design
- Audio breakaway
- Ethernet extension
- HDCP authentication and signal presence confirmation via RS-232 or Ethernet
- HDCP Visual Confirmation provides a green signal when encrypted content is sent to a non-compliant display
- Ethernet monitoring and control
- Redundant power supply

Model	Version Description	Part Number
XTP CrossPoint 3200 Frame	10U, 16-slot Frame	Call

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DIGITAL VIDEO SYSTEMS

XTP CP I/O Boards

XTP Transmitter and Receiver Boards with RS-232 and IR Insertion

The Extron XTP CP Input and Output Boards enable long distance transmission of AV signals between the XTP CrossPoint® matrix switcher and remote XTP transmitters and receivers. They can send video, audio, control, Ethernet, and power up to 330 feet (100 m) over a single CATx cable. The XTP CP boards are HDCP compliant, and support 1080p/60 Deep Color and 1920x1200 signals. Audio signals can be routed independently, including embedded HDMI audio, with one model also providing simultaneous multi-channel audio downmixing to two-channel PCM stereo audio for separate distribution. To streamline integration, the boards enable Ethernet extension and bidirectional RS-232 and IR insertion for LAN access and AV device control at remote endpoints.

FEATURES

- Supports 1080p/60 Deep Color and 1920x1200 signals
- Compatible with all XTP integrated system products
- Bidirectional RS-232 and IR insertion for AV device control
- Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable
- Extron strongly recommends using shielded twisted pair cabling for optimal performance
- HDCP compliant
- SpeedSwitch™ Technology provides exceptional switching speed for HDCP-encrypted content
- EDID Minder® automatically manages EDID communication between connected devices
- Key Minder® continuously verifies HDCP compliance for quick, reliable switching
- Ethernet extension
- Remote power to XTP transmitters and receivers

XTP CP 4i

XTP CP 4i DMA

XTP CP 4o

Model	Version Description	Part Number
XTP CP 4i	Four Input, XTP	70-940-01
XTP CP 4i DMA	Four Input, XTP - Downmixing Audio	70-940-02
XTP CP 4o	Four Output, XTP	70-943-01

XTP CP HDMI I/O Boards

HDMI Input and Output Boards with Analog Stereo Audio

The Extron XTP CP HDMI Input and Output Boards support HDMI and separate analog stereo audio signals. They provide the capability to connect local HDMI sources and output devices to XTP Systems. The XTP CP HDMI boards are HDCP-compliant, and support 1080p/60 Deep Color and 1920x1200 signals. Audio signals can be routed independently, including embedded HDMI audio, with one model also providing simultaneous multi-channel audio downmixing to two-channel PCM stereo audio for separate distribution.

FEATURES

- Supports 1080p/60 Deep Color and 1920x1200 signals
- Compatible with all XTP integrated system products
- HDCP compliant
- SpeedSwitch™ Technology provides exceptional switching speed for HDCP-encrypted content
- EDID Minder® automatically manages EDID communication between connected devices
- Key Minder® continuously verifies HDCP compliance for quick, reliable switching
- Local analog stereo audio inputs and outputs
- Output volume control
- Automatic cable equalization
- Automatic output reclocking
- Provides +5 VDC, 250 mA power on HDMI outputs for external peripheral devices

XTP CP 4i HDMI

XTP CP 4i HDMI DMA

XTP CP 4o HDMI

Model	Version Description	Part Number
XTP CP 4i HDMI	Four Input, HDMI with Stereo Audio	70-685-11
XTP CP 4i HDMI DMA	Four Input, HDMI - Downmixing Audio	70-685-12
XTP CP 4o HDMI	Four Output, HDMI with Stereo Audio	70-687-11

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DIGITAL VIDEO SYSTEMS

XTP CP DVI Pro I/O Boards

HDCP-Compliant DVI Input and Output Boards with Analog Stereo Audio

XTP CP 4i DVI Pro

XTP CP 4o DVI Pro

The Extron XTP CP DVI Pro Input and Output Boards support DVI and separate analog stereo audio signals. They provide the capability to connect local DVI sources and output devices to XTP Systems. The boards are HDCP compliant, and support 1080p/60 Deep Color and 1920x1200 signals. Audio signals can be routed independently.

FEATURES

- Supports 1080p/60 Deep Color and 1920x1200 signals
- Compatible with all XTP integrated system products
- HDCP compliant
- SpeedSwitch™ Technology provides exceptional switching speed for HDCP-encrypted content
- EDID Minder® automatically manages EDID communication between connected devices
- Key Minder® continuously verifies HDCP compliance for quick, reliable switching
- Automatic color bit depth management
- Interface Format Correction
- Local analog stereo audio inputs and outputs
- Output volume control
- Automatic cable equalization
- Automatic output reclocking
- Provides +5 VDC, 250 mA power on DVI outputs for external peripheral devices

Model	Version Description	Part Number
XTP CP 4i DVI Pro	Four Input, DVI with Stereo Audio	70-684-11
XTP CP 4o DVI Pro	Four Output, DVI with Stereo Audio	70-686-11

XTP CP 4i VGA Board

Universal Input Board with Analog Stereo Audio

The XTP CP 4i VGA Input Board features universal video inputs that automatically detect incoming RGBHV, HD component video, S-video, and composite video signals. It provides the capability to connect a variety of local analog video sources to XTP Systems. The board digitizes all incoming formats, and applies SD Pro processing to deinterlace 480i and 576i video signals for reliable display on a variety of output devices. It also features analog stereo audio inputs for independent routing of audio signals.

FEATURES

- Accepts RGBHV, HD component video, S-video, and composite video
- Supports 1920x1200 and 1080p/60 signals
- Auto input format detection
- Analog-to-digital signal conversion
- SD Pro processing provides deinterlacing of standard definition video
- Compatible with all XTP CP output boards
- EDID Minder® automatically manages EDID communication between connected devices
- Local analog stereo audio inputs

Model	Version Description	Part Number
XTP CP 4i VGA	Four Input, Universal VGA - Stereo Audio	70-941-01

XTP CP 4o SA Board

Analog Stereo Audio Output Board

The XTP CP 4o SA Output Board provides four analog stereo audio outputs for local connectivity to XTP Systems. It provides balanced or unbalanced analog stereo audio output, and can be used in audio breakaway applications. For added flexibility, the board includes volume adjustment and muting for each output.

FEATURES

- Balanced or unbalanced audio outputs
- Audio output volume adjustment and muting
- Compatible with all XTP CP input boards

Model	Version Description	Part Number
XTP CP 4o SA	Four Output, Analog Stereo Audio	70-944-01

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DIGITAL VIDEO SYSTEMS

XTP T HDMI

XTP Transmitter for HDMI

The Extron XTP T HDMI is an XTP transmitter that sends video, audio, bidirectional RS-232 and IR, and Ethernet up to 330 feet (100 m) over a single CATx cable. It is HDCP compliant, and supports 1080p/60 Deep Color and 1920x1200 signals. The transmitter also allows Ethernet extension and insertion of bidirectional RS-232 and IR for LAN access and AV device control at remote locations. The XTP T HDMI transmitter works with XTP Systems for signal distribution and long-distance transmission between remote endpoints.

FEATURES

- Transmits video, audio, bidirectional RS-232 and IR, and Ethernet up to 330 feet (100 m) over a single CATx cable
- Supports 1080p/60 Deep Color and 1920x1200 signals
- Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable
- Extron strongly recommends using shielded twisted pair cabling for optimal performance
- Bidirectional RS-232 and IR insertion for AV device control
- HDMI loop-through with selectable audio control
- Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC
- HDCP compliant
- EDID Minder® automatically manages EDID communication between connected devices
- Key Minder® continuously verifies HDCP compliance for quick, reliable switching
- Ethernet extension
- Remote power capability
- Supports multiple embedded audio formats
- Selectable analog stereo audio input embedding

Model	Version Description	Part Number
XTP T HDMI	XTP HDMI Transmitter	60-1043-12

XTP R HDMI

XTP Receiver for HDMI

The Extron XTP R HDMI is an XTP receiver that accepts video, audio, bidirectional RS-232 and IR, and Ethernet up to 330 feet (100 m) over a single CATx cable. The receiver features HDMI audio de-embedding with digital S/PDIF or analog stereo audio outputs. It also allows Ethernet extension and insertion of bidirectional RS-232 and IR for LAN access and AV device control at remote locations. The XTP R HDMI receiver works with XTP Systems for signal distribution and long-distance transmission between remote endpoints.

FEATURES

- Receives video with embedded audio, bidirectional RS-232 and IR, and Ethernet up to 330 feet (100 m) over a single CATx cable
- Supports 1080p/60 Deep Color and 1920x1200 signals
- Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable
- Extron strongly recommends using shielded twisted pair cabling for optimal performance
- Bidirectional RS-232 and IR insertion for AV device control
- Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC
- HDCP compliant

Model	Version Description	Part Number
XTP R HDMI	XTP HDMI Receiver	60-1043-13

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DIGITAL VIDEO SYSTEMS

XTP SR HDMI

XTP Scaling Receiver

The Extron XTP SR HDMI is an XTP receiver that scales HDMI, DVI, RGB, HD component video, and standard definition video to the optimal output resolution for the display. It accepts video, audio, bidirectional RS-232 and IR, and Ethernet up to 330 feet (100 m) over a single CATx cable. The receiver features HDMI audio de-embedding with digital S/PDIF or analog stereo audio outputs. It also allows Ethernet extension and insertion of bidirectional RS-232 and IR for LAN access and AV device control at remote locations. The XTP SR HDMI scaling receiver works with XTP Systems for signal distribution and long-distance transmission to remote endpoints.

FEATURES

- Receives video with embedded audio, bidirectional RS-232 and IR, and Ethernet up to 330 feet (100 m) over a single CATx cable
- Scales HDMI, DVI, RGB, HD component video, and standard definition video received from XTP devices
- Selectable output rates from 640x480 to 1920x1200, including HDTV 1080p/60
- Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable
- Extron strongly recommends using shielded twisted pair cabling for optimal performance
- Bidirectional RS-232 and IR insertion for AV device control
- Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, HD lossless audio formats, and CEC
- HDCP compliant
- Aspect ratio control
- Internal test patterns for calibration and setup

Model	Version Description	Part Number
XTP SR HDMI	XTP Scaling Receiver	60-1199-01

XTP T USW 103

Three Input XTP Switcher with Integrated XTP Transmitter

The XTP T USW 103 is a three-input switcher for sending HDMI or RGBHV video, audio, control, and Ethernet up to 330 feet (100 m) over a single CATx cable. It is HDCP compliant, and supports 1080p/60 Deep Color and 1920x1200 signals. It digitizes incoming analog video for reliable display on a variety of output devices. The transmitter also allows Ethernet extension and insertion of bidirectional RS-232 and IR for LAN access and AV device control at remote locations. The XTP T USW 103 transmitter works with XTP Systems for signal distribution and long-distance transmission between remote endpoints.

FEATURES

- Transmits HDMI or digitized analog video, audio, bidirectional RS-232 and IR, and Ethernet up to 330 feet (100 m) over a single CATx cable
- Two HDMI inputs and one VGA input
- Supports 1080p/60 Deep Color and 1920x1200 signals
- Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable
- Extron strongly recommends using shielded twisted pair cabling for optimal performance
- Auto-input switching
- Digital conversion of analog video formats
- Bidirectional RS-232 and IR insertion for AV device control
- Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC
- HDCP compliant
- EDID Minder® automatically manages EDID communication between connected devices
- Key Minder® continuously verifies HDCP compliance for quick, reliable switching
- Ethernet extension
- Remote power capability
- Supports multiple embedded audio formats
- Selectable analog stereo audio input embedding
- Audio input gain and attenuation
- Supports EDID and HDCP transmission
- LED indicators for signal presence, HDCP, and power
- RJ-45 signal and link status LED indicator for XTP port
- Compatible with all XTP integrated system products

Model	Version Description	Part Number
XTP T USW 103	Three Input XTP Transmitter Switcher	60-1198-01

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DIGITAL VIDEO SYSTEMS

XTP T VGA

Universal XTP Transmitter for VGA

The Extron XTP T VGA is a universal XTP transmitter that sends multi-format analog video, audio, control, and Ethernet up to 330 feet (100 m) over a single CATx cable. It digitizes all incoming analog formats and applies SD Pro processing to deinterlace 480i and 576i video signals for reliable display on a variety of output devices. To simplify integration, the transmitter features VGA loop-through for source monitoring. It also allows Ethernet extension and insertion of bidirectional RS-232 and IR for LAN access and AV device control at remote locations. The XTP T VGA transmitter works with XTP Systems for signal distribution and long-distance transmission to remote endpoints.

FEATURES

- Transmits digitized analog video, audio, bidirectional RS-232 and IR, and Ethernet up to 330 feet (100 m) over a single CATx cable
- Supports 1080p/60 and 1920x1200 signals
- Supports RGB, HD component video, S-video, and composite video signals
- Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable
- Extron strongly recommends using shielded twisted pair cabling for optimal performance
- SD Pro processing provides deinterlacing of standard definition video
- Digital conversion of analog video formats
- Auto input format detection
- Universal 15-pin HD input loop-through
- Bidirectional RS-232 and IR insertion for AV device control
- EDID Minder® automatically manages EDID communication between connected devices
- Ethernet extension
- Remote power capability
- Audio input gain and attenuation
- Supports EDID and HDCP transmission
- Comprehensive, LED indicators for signal format, presence, and power
- RJ-45 signal and link status LED indicator for XTP port
- Compatible with all XTP integrated system products

Model	Version Description	Part Number
XTP T VGA	Universal XTP VGA Transmitter	60-1231-12

XTP T UWP 202

Two Input XTP Transmitter - Decora® Wallplate

The XTP T UWP 202 is a two-input transmitter for sending HDMI or RGBHV video, audio, and Ethernet up to 330 feet (100 m) over a single CATx cable. It digitizes incoming analog video for reliable display on a variety of output devices. The transmitter is HDCP compliant, and supports 1080p/60 Deep Color and 1920x1200 signals. It also allows Ethernet extension for LAN access. The XTP T UWP 202 transmitter works with XTP Systems for signal distribution and long-distance transmission between remote endpoints.

FEATURES

- Transmits HDMI or digitized analog video, audio, and Ethernet up to 330 feet (100 m) over a single CATx cable
- HDMI and VGA inputs
- Supports 1080p/60 Deep Color or 1920x1200 signals
- Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable
- Extron strongly recommends using shielded twisted pair cabling for optimal performance
- Auto-input switching
- Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC
- HDCP compliant
- EDID Minder® automatically manages EDID communication between connected devices
- Key Minder® continuously verifies HDCP compliance for quick, reliable switching
- Ethernet extension
- Remote power capability
- Supports multiple embedded audio formats
- RS-232 control
- Selectable analog stereo audio input embedding
- Audio input gain and attenuation
- Supports EDID and HDCP transmission
- LED indicators for signal presence, HDCP, and power
- RJ-45 signal and link status LED indicator for XTP port
- Compatible with all XTP integrated system products

Model	Version Description	Part Number
XTP T UWP 202	Two Input Decora XTP Transmitter - White	60-1216-13
XTP T UWP 202	Two Input Decora XTP Transmitter - Black	60-1216-12

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DIGITAL VIDEO SYSTEMS

XTP PI 100

XTP Power Injector

The Extron XTP PI 100 is a single port power injector that provides power to a remote XTP transmitter or receiver, eliminating the need for a local power supply. Designed specifically for the high data rates of XTP Systems, signal quality is unaffected when using the power injector. It can be installed anywhere within the XTP signal path, providing design flexibility for remote devices with limited space. The unique enclosure of the power injector enables it to be installed in small spaces, and the included Extron ZipClip™·200 mounting kit allows the XTP PI 100 to be attached to a broad range of surfaces for further integration versatility.

FEATURES

- Supplies power to one XTP extender
- Designed specifically for the high-performance specification of XTP Systems
- Patent pending ZipClip™ 200 mounting kit included
  - Mounts securely on a variety of surfaces
  - Wire tie slots for stain relief and cable dressing
  - Quick release tab for easy access
- Real-time status LEDs for troubleshooting and monitoring
- UL/c-UL listed and CE compliant
- 1U, quarter rack width enclosure

Model	Version Description	Part Number
XTP PI 100	XTP Power Injector	60-1233-01

XTP PI 400

Four Port XTP Power Injector

The Extron XTP PI 400 is a four port power injector that provides power for up to four remote XTP transmitters or receivers, eliminating the need for local power supplies. Designed specifically for the high data rates of XTP Systems, signal quality is unaffected when using the power injector. It can be installed anywhere within the XTP signal path, providing design flexibility for remote devices with limited space. To ensure quick and dependable installation, the 1U, half rack width enclosure can be securely mounted using Extron rack shelves.

FEATURES

- Supplies power for up to four remote XTP extenders
- Real-time status LEDs for troubleshooting and monitoring
- UL/c-UL listed and CE compliant
- 1U, half rack width enclosure
- Rack-mountable 1U, half rack width enclosure

Model	Version Description	Part Number
XTP PI 400	Four Port XTP Power Injector	60-1298-01

XTP DTP 24

Shielded Twisted Pair Cable for XTP Systems and DTP Series

XTP DTP 24

XTP DTP 24P

Coupler Jack Plug

Extron XTP DTP 24 Cable is engineered for optimum signal transmission with Extron XTP Systems and DTP Series products. XTP DTP 24 Cable is certified to 475 MHz bandwidth at distances up to 330 feet (100 meters) when terminated with Extron XTP DTP 24 Plugs. The cable utilizes an SF/UTP design for superior performance and noise immunity, with four unshielded 24 AWG twisted pair conductors inside an overall braid and foil shield. XTP DTP 24 Cable is available in Non-Plenum and Plenum, 1,000 foot (305 m) spools in self-dispensing packaging. To complete an XTP or DTP system cable infrastructure, XTP DTP 24 Plugs, Punch Down Jacks, and Couplers are also available in packages of 10.

FEATURES

- Engineered for superior performance with Extron XTP Systems and DTP Series products
- Certified to 475 MHz bandwidth at distances up to 330 feet (100 m)
- SF/UTP design with four unshielded twisted pairs inside an overall braid and foil shield
- 24 AWG solid copper construction
- Plenum and Non-Plenum rated versions available
- XTP DTP 24 Plugs, Punch Down Jacks, and Couplers sold separately in packages of 10

Model	Version Description	Part Number
XTP DTP 24/1000	Non-Plenum 1000' (305 m) spool	22-236-03
XTP DTP 24P/1000	Plenum 1000' (305 m) spool	22-235-03
XTP DTP 24 Plug	Shielded RJ-45 Plug, Package of 10	101-005-02
XTP DTP 24 Jack	XTP DTP 24 Jack, Package of 10	101-023-01
XTP DTP 24 Coupler	XTP DTP 24 Coupler, Package of 10	101-022-02

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TLE 350

Matching Cable Cubby® for TouchLink® TLP 350CV Installations

The Extron TLE 350 is a durable, furniture-mountable metal housing for AV, data, and power connections. The enclosures dimensions are identical to that of the TouchLink® TLP 350CV, making it an ideal, complementary solution for TLP 350CV installations. When the cables are not being used, they can be stored out of sight while remaining connected to the system, offering a discreet way to access cables and connection points as they are needed. The TLE 350 offers nine single-space AAP - Architectural Adapter Plate openings, which can be populated with Extron AAPs and Retractors. The TLE 350 can be mounted securely into a tabletop, lectern, or other flat surface and is available in a black anodized or brushed aluminum finish. AC power modules are available for the US, Europe, and other major world markets.

FEATURES

- Dimensions are identical to the TouchLink® TLP 350CV, making it an ideal, complementary solution for TLP 350CV installations
- Furniture-mountable enclosure provides easy access to AV, data, and power connections
- Low profile design with flip-up lid
- Nine single-space AAP openings, which can be populated with Extron AAPs and Retractors
- Available in black anodized and brushed aluminum finishes
- AC power modules available for US, Europe, and other major world markets

Model	Version Description	Part Number
TLE 350	Black Anodized	70-1004-00
TLE 350	Brushed Aluminum	70-1004-10

TLE 710

Matching Cable Cubby® for TouchLink® TLP 710CV Installations

The Extron TLE 710 is a durable, furniture-mountable metal housing for AV, data, and power connections. The enclosures dimensions are identical to that of the TouchLink® TLP 710CV, making it an ideal, complementary solution for TLP 710CV installations. When the cables are not being used, they can be stored out of sight while remaining connected to the system, offering a discreet way to access cables and connection points as they are needed. The TLE 710 offers eleven single-space AAP - Architectural Adapter Plate openings, which can be populated with Extron AAPs and Retractors. The TLE 710 can be mounted securely into a tabletop, lectern, or other flat surface and is available in a black anodized or brushed aluminum finish. AC power modules are available for the US, Europe, and other major world markets.

FEATURES

- Dimensions are identical to the TouchLink® TLP 710CV, making it an ideal, complementary solution for TLP 710CV installations
- Furniture-mountable enclosure provides easy access to AV, data, and power connections
- Low profile design with flip-up lid
- Eleven single-space AAP openings, which can be populated with Extron AAPs and Retractors
- Available in black anodized and brushed aluminum finishes
- AC power modules available for US, Europe, and other major world markets

Model	Version Description	Part Number
TLE 710	Black Anodized	70-1005-00
TLE 710	Brushed Aluminum	70-1005-10

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Extron

TOUCHLINK ACCESSORIES

TLM 100T

Secure Tabletop Mounting Enclosure for iPad

The Extron TLM 100T is a secure tabletop mount designed for use with 2nd, 3rd, or 4th generation iPads. The TLM 100T is the first secure iPad enclosure designed specifically for the professional AV market, and has several features that make it ideal for high-traffic areas where an iPad is running Extron control apps or is being used as a presentation video source. When locked in with the included security fasteners, the iPad is safeguarded against theft. The discrete cable management system allows iPad adapters and charging cables to be routed through the adjustable and removable base. In addition, the base can be paired with an optional Extron SMA-1 Swivel Mount Adapter, allowing the iPad to swivel to provide convenient viewing for multiple users. The TLM 100T mounts on a tabletop or other flat surface and is VESA mountable.

FEATURES

- Securely mounts a 2nd, 3rd, or 4th generation iPad to a tabletop or other flat surface
- Ideal for iPads running Extron control apps, such as TouchLink for iPad and MediaLink for iPad
- Discreet cable management system
- All fasteners and security tools included
- Kensington lock support
- Compatible with Extron SMA-1 Swivel Mount Adapter and LPVM-1 Low Profile VESA Mount

TLM 100T shown with iPad installed

Model	Version Description	Part Number
TLM 100T	Secure Tabletop iPad Mount	70-1022-02

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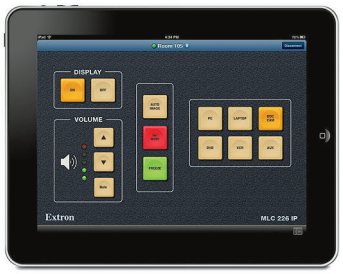
MEDIALINK AND TOUCHLINK FOR IPAD

MediaLink® for iPad

iPad Control App for MLC 104 IP Plus and MLC 226 IP Controllers



Extron's MediaLink for iPad is an AV control system app designed for the Apple iPad. MediaLink for iPad provides users with an additional point of control for up to twelve rooms with an installed Ethernet-enabled MediaLink controller. With this app, presenters can wirelessly control the AV system using a Wi-Fi network, allowing them the freedom to move from room to room. Each button press is tracked in real time between the app and the controller, so that both stay in sync. MediaLink for iPad is available in the Apple iTunes App Store.

FEATURES

- Provides an additional point of control for Ethernet-enabled MediaLink controllers
- Supports MLC 104 IP Plus and MLC 226 IP MediaLink controllers that are configured using Global Configurator
- Connection manager allows presenters to control different rooms
- Button tracking allows iPad and controller to stay in sync
- Provides real-time status and remote control of multiple rooms for troubleshooting and management

Model	Version Description
MediaLink for iPad	iPad App for MLC 104 IP Plus,MLC 226 IP

TouchLink® for iPad

iPad Control App for TouchLink® Touchpanels

Extron's TouchLink® for iPad is an easy-to-use AV control system app designed for the Apple iPad. It provides users with an additional point of control for rooms equipped with a TouchLink touchpanel. The app is compatible with projects created using Global Configurator 3.5 and Global Configurator Professional and is enabled with a single mouse click. With this app, presenters can wirelessly control their AV system using a Wi-Fi network, allowing them the freedom to move from room to room. Each button press is tracked in real time between the app and the touchpanel, so that both stay in sync. With TouchLink for iPad, no additional GUI configuration is required, as it emulates the interface of the existing touchpanel. TouchLink for iPad is available in the Apple iTunes App Store.

FEATURES

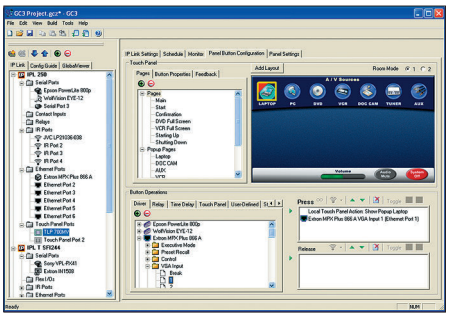
- Provides an additional point of control for TouchLink touchpanels
- Room manager allows presenters to control different rooms
- Button tracking allows iPad and touchpanel to stay in sync
- Provides real-time status and remote control of multiple rooms for troubleshooting and management
- Wireless control using a Wi-Fi network allows the user to move freely from room to room
- Familiar user interface duplicates the installed TouchLink touchpanel GUI
- Easily enable within Global Configurator 3.5 and Global Configurator Professional with a single mouse click

Model	Version Description
TouchLink for iPad	iPad App for TouchLink Touchpanels

CONFIGURATION SOFTWARE

Global Configurator, Version 3.5

Free Configuration Software for TouchLink®, MediaLink®, and IP Link® Control Systems



Global Configurator is a simple-to-use, yet comprehensive software application that allows users to configure a wide range of Extron Ethernet-enabled control products. It provides an integrated environment for defining AV control system functionality from an easy-to-use graphical user interface. In the latest release, version 3.5, Global Configurator now supports TouchLink for iPad. With a single mouse click, TouchLink for iPad turns an iPad into a wireless additional point of control.

FEATURES

- Available for free from www.extron.com
- No programming skills required
- Configures Extron IP-based control products, including TouchLink®, MediaLink®, and IP Link®
- Supports TouchLink for iPad
- TouchLink GUI integration
- Integrated IP Link device management capabilities

Model	Version Description	Part Number
Global Configurator	Configuration software	79-511-01

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Extron

CONFIGURATION SOFTWARE

Global Configurator Professional

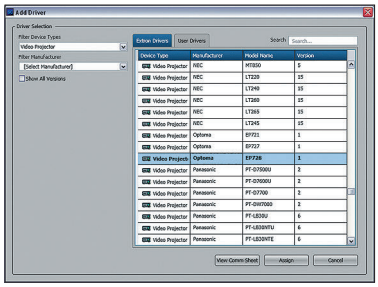
Advanced Configuration Software for AV Control Systems

Global Configurator Professional is Extron's next generation configuration software for larger, more sophisticated TouchLink®-based configurable control systems. It offers an integrated environment for defining advanced AV control system functionality from an easy-to-use graphical user interface. Powerful features, such as controller groups and conditional logic, provide greater flexibility for more elaborate control system designs. GC Pro is ideal for any TouchLink-based control system requiring enhanced functionality and advanced configuration.

FEATURES

- Supports larger, more sophisticated TouchLink-based control systems
- Conditional logic with use of local variables
- Controller groups
- Virtual TouchLink support
- Controller macros
- Controller templates
- Enhanced user interface
- Enhanced button grouping
- Extensive library of thousands of certified, ready-to-use Ethernet, serial, and IR drivers
- Driver Configurator support
- Device driver subscription service
- String support within drivers
- Serial driver replacement maintains configuration settings when a serial driver is replaced
- Checks for missing drivers
- GlobalViewer system designer
- GlobalViewer Help button
- Project file import and export
- Scheduling and monitoring wizards
- Multiple action scheduling
- Event reporting
- Intelligent upload manager
- Aggregate event triggers
- Enhanced labeling options
- Three different methods for sorting and displaying control processors in a system
- Project AutoSave

Global Configurator Professional



Driver Configurator Support - Allows creation of user defined serial and Ethernet drivers for devices that do not already have drivers available.

Global Configurator Professional enables TouchLink for iPad

Enhanced Functionality With Use of Conditional Logic

Conditional logic allows advanced functionality by making "if" and "else" statements available. With the help of conditional logic, one can easily set up operations that are dependent upon occurrence and non-occurrence of certain events. Conditional logic with local variables also allows examination of conditions within the configured button actions before performing a task. This ultimately helps in streamlining project creation by minimizing the need for monitors and schedules.

Combining Multiple Controllers for Larger Control Systems

With GC Pro, the controller groups feature allows control processors to be grouped together to work as one big controller. This feature is required to serve the needs of advanced systems that require more control ports than any single control processor possesses. Grouping the control processors will also reduce the need for long RS-232 cable runs as the group can span several rooms instead of being limited to a single room. Existing control systems benefit with this added feature as it affords an opportunity for easy expansion.

Easy Duplication of Control System Configurations

The controller templates feature helps create a baseline configuration that can be reused to create identical control systems. In essence, this feature creates an abstract representation of a controller. When a controller is linked to a template, it becomes an exact replica of that abstract. Any changes made to a template are automatically duplicated to all the controllers linked to it.

Create Additional Point of Control for TouchLink

Global Configurator Professional enables Virtual TouchLink, which creates an additional point of control for rooms with installed TouchLink touchpanels. This can be established in one of two ways: TouchLink for Web is accessed from any Web browser that supports Microsoft Silverlight, and TouchLink for iPad is an AV control system app designed for the Apple iPad. Both the Web and iPad versions support button tracking, which tracks each button press to the touchpanel, allowing both virtual and installed touchpanels to stay in sync. For TouchLink for iPad, presenters can wirelessly control the AV system using a Wi-Fi network, allowing them the freedom to move throughout a room.

Model	Version Description	Part Number
Global Configurator Professional	Configuration Software	79-544-01

Global Configurator Professional is available to qualified AV professionals.
Call your Extron Customer Support Representative for details.

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CONFIGURATION SOFTWARE

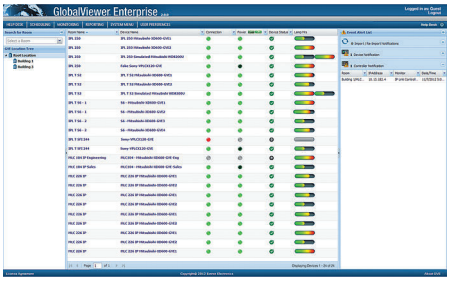
GlobalViewer® Enterprise 2.0

Server-Based AV Resource Management Software

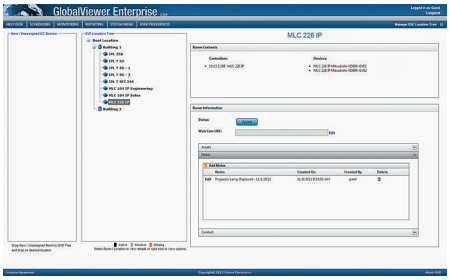
GlobalViewer® Enterprise 2.0 server-based software takes enterprise-wide scheduling, monitoring, and help-desk functionality to a new level. Building on an already powerful feature set, this latest version provides a host of new and enhanced features that streamline and simplify many common AV tasks. Microsoft® .NET® technology allows GlobalViewer Enterprise to integrate with third-party facility scheduling software for viewing room availability and managing meeting schedules.

FEATURES

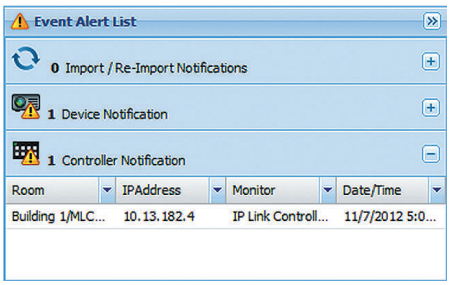
- Import up to five configurations at once
- At-a-glance import status with progress bars and new icons
- Mouse-over tool tips for system menu
- Enhanced Event Alert List is always visible or accessible in Help Desk and Monitor views
- Added drag and drop functionality for rooms within Tree Manager
- Ability to rename location folders within Tree Manager
- Added ability to manage Room notes in Tree Manager
- Expanded Help Desk views with more customization options
- Easier access to mobile connection manager
- Global Configurator project repository
- Room control terminal combines multiple tools in one view
- Room calendar and schedules now under one view
- No programming knowledge required
- Support for third-party control system integration
- Comprehensive set of customizable device usage, trend analysis, and inventory reports
- iGVE app support
- Enhanced monitors and schedules based on location and/or device type
- Enhanced browser security with SSL
- Supports user logon authentication using Microsoft Active Directory
- Configurable user access based on role and location
- Customizable e-mail templates
- Dynamic event alert list of user-definable system events
- Firmware Manager simplifies and automates firmware updates
- Webcam support
- Minimal impact on network load
- Product Commissioning Service



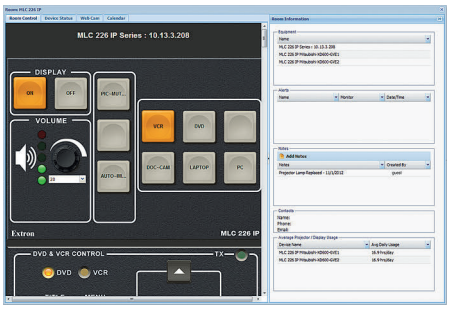
GlobalViewer Enterprise 2.0



Enhanced Tree Manager



Enhanced Event Alert List



Streamlined Room Control Terminal

At-a-Glance Import Status

Progress bars and new icons allow at-a-glance status of the import process. Icons are now provided for easy status checks of imported files. The new import/re-import icon allows the user to easily update configurations, while the new progress bar provides real-time import status.

Enhanced Tree Manager

A completely redesigned Tree Manager adds drag-and-drop functionality to rooms imported from Global Configurator and the ability to rename rooms that are currently located in the tree. Room notes management has also been added to the room information portion of the tree for easy note organization and viewing.

Room Control Terminal Combines Multiple Tools in One View

To streamline the management of individual rooms, GlobalViewer Enterprise 2.0 combines multiple tools such as Room Control, Device Control/Status, Webcam, and Calendar into one, easily-accessible view.

Enhanced Event Alert List

The Event Alert List EAL is now easily accessible from an auto-hiding sidebar on the Help Desk view. Also, for quicker and easier viewing, the three categories of event alerts - import/re-import notification, device notification, and controller notifications, have been separated into their own expandable viewing panes. In addition, an EAL log tab has been added to the Monitoring view for easy access to event logs while managing monitors.

Model	Version Description	Part Number
GlobalViewer Enterprise	Server-Based Resource Mngmnt Software .	29-096-01

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Extron

SCALERS

DSC 301 HD

Three Input Compact HDCP-Compliant Video Scaler

The Extron DSC 301 HD is a three input, HDCP-compliant video scaler that includes an HDMI input, configurable high resolution analog and composite video inputs, and an HDMI output. The DSC 301 HD accepts a wide variety of video formats including HDMI, HDTV, RGB, component, and standard definition video. It features advanced Extron video signal processing with 1080i deinterlacing, EDID Minder®, and automatic input switching. Analog audio from any of three stereo inputs may be embedded onto the HDMI output. Front panel controls, intuitive on-screen menus, plus USB and RS-232 connections provide flexible control and monitoring. Designed for professional integration, the compact, low profile half-rack width enclosure of the DSC 301 HD enables simple and discreet mounting in many environments.

FEATURES

- HDMI, RGB, HDTV, and video scaling to HDMI
- Auto-switching between inputs
- HDMI audio embedding
- Selectable output rates from 640x480 to 1920x1200, including HDTV 1080p/60 and 2K
- Advanced scaling engine with 30-bit processing and 1080i deinterlacing
- HDCP compliant
- Key Minder® continuously verifies HDCP compliance for quick, reliable switching
- EDID Minder® automatically manages EDID communication between connected devices
- Intuitive on-screen menus simplify setup and provide comprehensive system information

Model	Version Description	Part Number
DSC 301 HD	Three Input HDCP-Compliant Scaler	60-1253-01

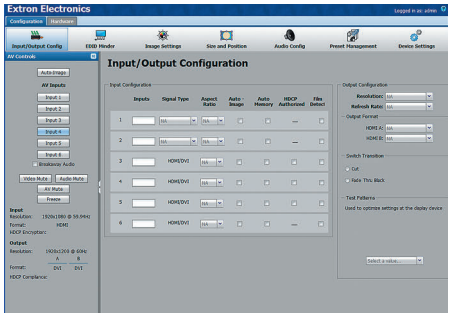
IN1606

Six Input HDCP-Compliant Scaling Presentation Switcher

The Extron IN1606 is a six input, HDCP-compliant video scaler that includes four HDMI inputs, two universal analog video inputs, and two simultaneous HDMI outputs. The IN1606 accepts a wide variety of video formats including HDMI, HDTV, RGB, and standard definition video. It features an advanced video scaling engine with 1080i deinterlacing, Deep Color processing, and seamless switching to deliver uncompromised picture quality for up to 1920x1200 and 2K output resolutions. Enhanced audio features include six stereo inputs, fixed and variable stereo outputs, two mic/line inputs with ducking, plus HDMI audio embedding and de-embedding. Designed for professional AV integration, the IN1606 offers flexible control options including Ethernet, RS-232, and USB. The IN1606 provides a complete AV switching system in one compact unit.

FEATURES

- Integrates HDMI, HDTV, RGB, and video sources into presentation systems with audio switching
- Four HDMI inputs and two universal analog video inputs
- Two simultaneous HDMI outputs
- Two mic/line inputs with ducking and 48 volt phantom power
- HDMI audio embedding
- HDMI audio de-embedding
- Selectable output rates from 640x480 to 1920x1200, including HDTV 1080p/60 and 2K
- Key Minder® continuously verifies HDCP compliance for quick, reliable switching
- EDID Minder® automatically manages EDID communication between connected devices
- SpeedSwitch™ Technology provides exceptional switching speed for HDCP-encrypted content
- Built-in Web pages and enhanced GUI offer convenient access for complete setup and system monitoring



Full control with built-in web pages

Model	Version Description	Part Number
IN1606	HDCP-Compliant Scaling Switcher	60-1081-01

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VIDEOWALL PROCESSORS

Quantum® Elite

HDCP-Compliant Scalable Videowall Processing System

Quantum Elite Dual SDI, HD-SDI, and 3G-SDI Input Card

The Extron Quantum® Elite is an HDCP-compliant, scalable, expandable videowall processor configurable to support a variety of input, output, and windowing capabilities. It features high performance video scaling capable of producing very high quality images. The Quantum Elite offers two card cages that support various combinations of input and output cards for SDI, HDMI, DVI, RGB, HDTV or video sources. Each HDMI or DVI-I dual output card supports up to 128 video/graphic source windows, and multiple Quantum Elite card cages can be cascaded to create very large display arrays. A dedicated, high-speed video/graphic bus maintains real-time performance even under heavy loading of inputs.

FEATURES

- Scalable videowall processing for large videowalls with up to 28 displays or more
- Card frame videowall processing system available with 8 or 15 slots
- Dual input card for SDI, HD-SDI, and 3G-SDI signals
- HDCP-compliant input/output options
- Key Minder® continuously verifies HDCP compliance for quick, reliable switching
- High speed, dedicated video/graphic bus delivers real-time performance
- Dual HDMI/DVI output card supports resolutions up to 1920x1200 and HDTV 1080p/60
- HDCP encryption status LEDs on HDMI inputs and outputs
- Dual DVI/RGB output card supports resolutions up to 1920x1200 and HDTV 1080p/60
- Up to 128 video/graphic windows per dual output card
- Dual input card for HDMI or DVI graphics and video
- Dual input card for DVI signals
- Dual input card for analog RGB or HD component video signals
- 12-channel video input card supports any mix of composite or S-video signals
- IP streaming enables interfacing of hundreds of RGB/DVI input signals with QGE 100 Quantum Graphics Encoders
- Ruggedized real-time operating system and power redundancy features support 24/7 operation

Model	Version Description	Part Number
QEC I2SDI	Quantum Elite Dual Multi-Rate SDI Input Card	Call

Quantum® Connect

HDCP-Compliant Videowall Processing System

The Extron Quantum® Connect is an HDCP-compliant videowall processor that delivers the same high quality video scaling, windowing capability, and reliable, real-time performance as Extron's flagship Quantum Elite. Quantum Connect is ideal for small to medium-sized videowalls with two to 14 screens in installations with permanent AV system configurations. It supports a wide variety of input, output, and windowing capabilities in a small form factor, and features high performance video scaling technology capable of producing superior quality images. The Quantum Connect is a non-expandable card-cage design that is populated at the factory with user-selected combinations of input and output cards for SDI, HDMI, DVI, RGB, HDTV or video sources. Each HDMI or DVI-I dual output card supports up to 128 video/graphic source windows.

FEATURES

- Videowall processing for mid-sized videowalls with up to 14 displays
- Card frame videowall processing system available with eight slots
- Dual input card for SDI, HD-SDI, and 3G-SDI signals
- HDCP-compliant input/output options
- Key Minder® continuously verifies HDCP compliance for quick, reliable switching
- High speed, dedicated video/graphic bus delivers real-time performance
- Dual HDMI/DVI output card supports resolutions up to 1920x1200 and HDTV 1080p/60
- HDCP encryption status LEDs on HDMI inputs and outputs
- Dual DVI/RGB output card supports resolutions up to 1920x1200 and HDTV 1080p/60
- Up to 128 video/graphic windows per dual output card
- Dual input card for HDMI or DVI graphics and video
- Dual input card for DVI signals
- Dual input card for analog RGB or HD component video signals
- 12-channel video input card supports any mix of composite or S-video signals
- Supports digital and analog input signals up to 1920x1200
- Optimal reliability

Model	Version Description
Quantum Connect	Videowall Processing System

Europe
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Extron

STREAMING AV

SME 100

H.264 Streaming Media Encoder

The Extron SME 100 is a live streaming media encoder that interfaces with DVI, RGB, HDTV, and standard definition signals for delivering media over IP networks. It is designed specifically for pro AV applications and features an integrated three-input switcher with audio, plus buffered loop-throughs for simplified integration into AV systems. The SME 100 employs standards-based H.264 / MPEG-4 AVC and AAC encoding, and outputs an IP stream that can easily be decoded and viewed on desktop or laptop PCs. High performance Extron signal processing scales and optimizes video input signals for the intended viewing application. Encoding controls also provide adjustments for bit rate and quality. By extending AV signals over networks, the SME 100 significantly expands AV system capability.

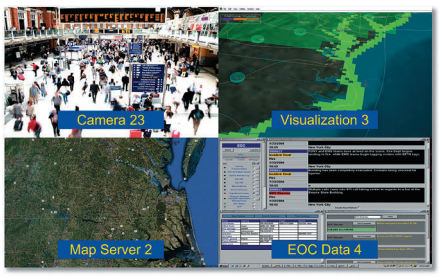
FEATURES

- Streams DVI, RGB, HDTV, and video signals with audio over IP networks
- Available in two models supporting streaming at SD or HD resolutions
- HD and SD models support input signal resolutions up to 1920x1200, including HDTV 1080p/60
- Standards-based H.264 / MPEG-4 AVC video compression
- Integrated three-input AV switcher
- Buffered input loop-throughs for video and audio
- DVI, RGB, HDTV, and standard definition video upscaling and downscaling
- Auto Input Format Detection
- Auto-Image™ setup
- Streaming transport protocol options support use in a variety of network configurations and compatibility with many 3rd party devices
- H.264 compression profiles and level selection
- Stream unicast or multicast applying pull or push session management
- Compatible with set top box decoders
- Encoding quality controls including video resolution, video bit rate, frame rate, constant or variable bit rate control, GOP length, and audio bit rate
- Encoding presets for quick recall of specific compression settings
- Streaming presets for quick recall of specific system configurations
- Auto Input Memory
- EDID Minder® automatically manages EDID communication between connected devices
- Audio breakaway
- Picture controls for brightness, contrast, color, tint, detail, as well as horizontal and vertical positioning, sizing, and zoom
- Advanced deinterlacing
- Internal test patterns for setup
- Ethernet monitoring and control

Model	Version Description	Part Number
SME 100 HD	H.264 HD Encoder	60-1061-01
SME 100 SD	H.264 SD Encoder	60-1061-02

VNS 104

Multi-Stream Decoding Software for VN-Matrix 225 or 200 Series



The VNS 104 is a software application for decoding one or four video streams and one stereo audio stream from VN-Matrix 225 real-time encoders and VN-Matrix Recorder playback channels. The VNS 104 operates on a Windows PC and is managed and controlled from a VN-Matrix Enterprise Controller. The VNS 104 is used in monitoring, remote presentation viewing, distance collaboration, data visualization, or any application where a single display is desired for viewing one or four VN-Matrix streams. The VNS 104 is a cost effective alternative to using VN-Matrix hardware decoders in a variety of environments, including command and control, after action review, training and simulation, medical or geological visualization.

FEATURES

- Decodes and displays one or four VN-Matrix PURE3® video streams on a single display from a Windows PC platform
- Decodes one audio source which is selectable from the four decoded VN-Matrix streams
- Select VNS 104 streams and display modes from an external control system through VN-Matrix Enterprise Controller
- Monitor four VN-Matrix streams from one display as a cost effective alternative to multiple hardware decoders and displays
- Scaling and aspect ratio control
- Audio source selection, mute, and level control
- Text overlay messaging
- Software license supports installation on one endpoint
- For use on LANs or private networks supporting multicast traffic

Model	Version Description	Part Number
VNS 104	Four Stream Decoding Software License	29-108-01

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STREAMING AV

VNR 100

VN-Matrix® Single Channel Recorder

The VNR 100 digitally records and plays back high-definition computer graphics, video, audio, and data streamed in VN-Matrix® systems. It can record and play back at the same time, increasing duty cycles for expensive source equipment and presentation systems by utilizing both recording and play back features simultaneously. The time slip feature, allows a live event to be recorded while a previous event is played back and chase play allows a recording in progress to be streamed with a time-shifted delay. VN-Matrix systems can be configured with multiple VNR 100 units to record and play back synchronized multi-source AV presentations or multi-screen display systems. The VNR 100 is ideally suited for AV streaming and recording applications with the most demanding quality and performance requirements.

FEATURES

- Simultaneously record and play back VN-Matrix AV streams
- Time-shift playback capabilities support time slip or chase play
- Transport controls include: play, pause, single frame forward or back, play or jump back at 2x 4x 8x speed
- System scalability - create multi-channel recording systems using multiple VNR 100 units
- System synchronization - synchronize playback across multiple VNR 100 units
- Replacement media drive and operating system drive available

Model	Version Description	Part Number
VNR 100	VN-Matrix Single Channel Recorder	60-1291-01
VNR 100 OS	VNR 100 OS Drive 80 GB in Caddy	70-1002-01
VNR 100 MD	VNR 100 Media Drive 1 TB in Caddy	70-1003-01

AUDIO PRODUCTS

XPA 4002

Two Channel Amplifier - 400 Watts Per Channel

The Extron XTRA™ Series XPA 4002 is a 1U, convection-cooled power amplifier delivering two channels of 400 watts rms. This professional grade amplifier features a 100 dB signal-to-noise ratio with 0.1% THD+N. The XPA 4002 is an ENERGY STAR® qualified amplifier with an Extron exclusive, highly efficient, advanced Class D amplifier design. It also features patented CDRS™ - Class D Ripple Suppression technology that provides a smooth, clean audio waveform and an improvement in signal fidelity over conventional Class D amplifiers. The XPA 4002 is half the size of comparable amplifiers, conserving rack space and weighing only 9 lbs (4 kg). The Extron exclusive, high efficiency design generates very little heat and allows the amplifier to be convection cooled.

FEATURES

- Two models with 800 watts rms output power per model:
  - 2 x 400 watts @ 4 ohms; 2 x 200 watts @ 8 ohms; 1 x 800 watts @ 8 ohms (bridged)
  - 2 x 400 watts @ 70 volts
- ENERGY STAR® qualified amplifier
- Professional grade signal-to-noise and THD+N performance
- Extron Patented CDRS™ - Class D Ripple Suppression
- Convection cooled, fanless operation
- Ultra low inrush current - no need for power sequencing
- Power factor correction - removes harmonic content on AC line
- Rack-mountable 1U, full rack width enclosure

Model	Version Description	Part Number
XPA 4002	Two Channel Amp - 400 Watts/Ch	60-1244-01
XPA 4002-70V	70 V Two Channel Amp - 400 Watts/Ch	60-1245-01

ENERGY STAR

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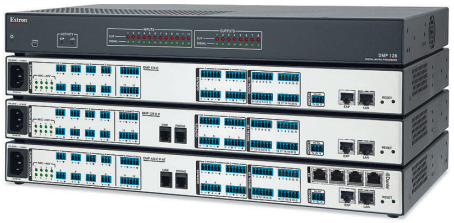
AUDIO PRODUCTS

DMP 128

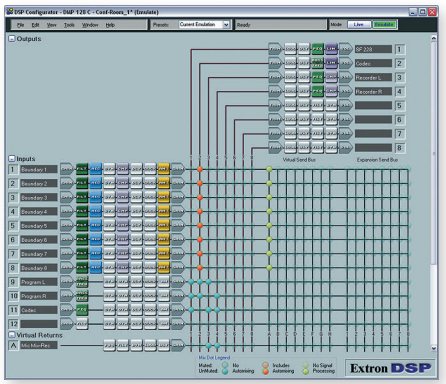
12x8 ProDSP™ Digital Matrix Processors



The Extron DMP 128 Digital Matrix Processor is a 12x8 audio mixer featuring Extron ProDSP™, automixing, and available AEC - acoustic echo cancellation plus Dante™ audio networking. The DMP 128 Series offers a configuration approach to DSP that simplifies mixing, routing, conferencing, and room optimization. Quick and intuitive configuration using the DSP Configurator™ Software allows the DMP 128 to be installed in very little time, with easy-to-learn adjustments that can be heard in real-time. A digital audio expansion port allows two DMP 128 units to be linked together to expand input and output signal management and routing capabilities. The DMP 128 is ideal for presentation and conferencing applications in boardrooms, courtrooms, and conference centers.

FEATURES

- Six models with 12 mic/line inputs and 8 outputs
- Models available with AEC, Dante™, and POTS
- Digital audio expansion port for linking two DMP 128 units
- Automixer with eight groups
- ProDSP™ 32/64-bit floating point signal processing
- Studio grade 24-bit/48 kHz analog-to-digital and digital-to-analog converters
- Fixed, low latency DSP processing
- DSP Configurator™ Software
- Intuitive Graphical User Environment
- Building Blocks processor settings
- 20 digital I/O ports for remote control or feedback



DSP Configurator™

Flexible Routing Within the DMP 128

The DMP 128 features 12 mono mic/line inputs, eight with phantom power. These inputs can be matrix mixed into any of the eight output buses to create finely tuned audio zones for the corresponding outputs. In addition, the 12 inputs can also be routed to any of the eight “virtual” buses to allow inputs to be processed together as a group, before routing back into the output buses. The flexible routing and mixing capabilities within the DMP 128 accommodate a wide variety of sound system application requirements.

Expanded Routing Across Two DMP 128 Processors

An expansion port allows any two DMP 128 models to be linked together via a single shielded CAT 6 cable. This allows eight matrix mixes of the inputs, plus eight virtual paths to be sent and received between units. Expanded routing capability allows designers to create audio mixes with advanced I/O and signal management scenarios.

Automixer

The DMP 128 features an automixer with gated and gain sharing modes for managing up to eight groups of microphone signals. Gating threshold, signal level reduction, and timing parameters are user-adjustable per channel. This allows for fine-tuning to avoid the “chopped” sound characteristic of a traditional automixer when a mic is gated off. As the number of active microphones is doubled, system gain is automatically reduced by half, with microphone signal levels uniformly attenuated to minimize audible changes in the overall sound and the possibility of feedback. For a natural sounding mic mix, the automixer also offers a gain sharing mode when the NOM - number of open microphones is bypassed, allowing all mics to gate on.

Acoustic Echo Cancellation

The DMP 128 C and DMP 128 C P models include Extron AEC for conferencing applications. These models include eight independent channels of high performance AEC, as well as selectable noise cancellation. Extron AEC features advanced algorithms that deliver fast echo canceler convergence and greater than 200 milliseconds tail length for optimal intelligibility.

Dante Audio Networking

Dante equipped DMP 128 AT models provide scalable audio transport over a local area network using standard Internet protocols. Each DMP 128 AT sends out 24 channels of 24-bit/48 kHz digital audio and can receive 56 channels over the network. A built-in four-port Gigabit switch also provides direct interconnection of multiple DMP 128 AT units to create larger, cost-effective audio matrixes. Dante technology distributes a virtually unlimited 512x512 audio channels at 24-bit/48 kHz over a single Gigabit Ethernet link, plus integrated control data with extremely low latency. Both Dante and the four-port switch are AVB - Audio Video Bridging ready.

Model	Version Description	Part Number
DMP 128	12x8 ProDSP Processor	60-1211-01
DMP 128 AT	12x8 ProDSP Processor w/Dante	60-1211-10
DMP 128 C	12x8 ProDSP Proc. w/AEC	60-1178-01
DMP 128 C AT	12x8 ProDSP Proc. w/AEC and Dante	60-1178-10
DMP 128 C P	12x8 ProDSP Proc. w/AEC and POTS	60-1179-01
DMP 128 C P AT	12x8 ProDSP Proc. w/AEC, POTS and Dante	60-1179-10

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FIBER OPTICS

HFX 100

HDMI Fiber Optic Extender

HFX 100 Tx HFX 100 Rx

The Extron HFX 100 Fiber Optic Extender is an compact transmitter and receiver set that provides extension of HDCP-compliant HDMI signals long distances over one fiber optic cable. It supports HDMI specification features including data rates up to 6.25 Gbps, 12-bit Deep Color, 3D, HD lossless audio formats, and CEC. Engineered for reliability and exceptional high resolution image performance, it uses all-digital technology to deliver perfect pixel-for-pixel transmission of images up to 1920x1200, including HDTV 1080p/60. The HFX 100 extends HDMI video and embedded multi-channel digital audio signals over a multimode fiber optic cable at lengths up to 300 meters (984 feet).

FEATURES

- Transmits HDMI video and embedded multi-channel digital audio signals over one multimode fiber optic cable
- Supported HDMI specification features include data rates up to 6.25 Gbps, 12-bit Deep Color, 3D, HD lossless audio formats, and CEC
- HDCP compliant
- Sends 1080p/60 Deep Color and 1920x1200 signals up to 300 meters (984 feet)
- All digital technology provides pixel-for-pixel performance with signals up to 1920x1200, including HDTV 1080p/60
- Supports DDC transmission
- Integrated ultra-flexible HDMI cable
- 1U high, one-eighth rack width metal enclosure
- Includes LockIt® HDMI cable lacing brackets
- Industry standard LC connectors provide reliable physical connectivity and precise fiber core alignment
- Compatible with 2LC OM4 MM P pre-terminated fiber optic cable assemblies from Extron
- Energy-efficient external universal power supply included, replacement part # 70-775-01

Model	Version Description	Part Number
HFX 100 Tx	HDMI Fiber Optic Transmitter	60-1277-12
HFX 100 Rx	HDMI Fiber Optic Receiver	60-1277-13

DFX 100

DVI Fiber Optic Extender

DFX 100 Tx DFX 100 Rx

The Extron DFX 100 Fiber Optic Extender is a transmitter and receiver set that provides extension of single link DVI-D signals long distances over one fiber optic cable. Engineered for reliability and exceptional high resolution image performance, it uses all-digital technology to deliver perfect pixel-for-pixel transmission of images up to 1920x1200, including HDTV 1080p/60. The DFX 100 extends DVI-D signals over a multimode fiber optic cable at lengths up to 300 meters (984 feet).Both the transmitter and receiver are housed in 1U high, one-eighth rack width metal enclosures for convenient, discreet installation. To simplify integration, attached DVID SL Ultra Series ultra-flexible DVI cables allow for direct connection to source and destination devices.

FEATURES

- Transmits single link DVI-D signals over one multimode fiber optic cable
- Supports data rates to 4.95 Gbps - 1.65 Gbps per color
- Sends 1920x1200 and HDTV 1080p/60 signals up to 300 meters (984 feet)
- All digital technology provides pixel-for-pixel performance with signals up to 1920x1200, including HDTV 1080p/60
- Supports DDC transmission
- Integrated ultra-flexible DVI cable
- Compatible with 2LC OM4 MM P pre-terminated fiber optic cable assemblies from Extron

Model	Version Description	Part Number
DFX 100 Tx	DVI Fiber Optic Transmitter	60-1254-12
DFX 100 Rx	DVI Fiber Optic Receiver	60-1254-13

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FIBER OPTICS

DDX 102

Dual Link DVI Fiber Optic Extender

The Extron DDX 102 Fiber Optic Extender is an extremely compact transmitter and receiver set that provides an effective, economical solution for extending dual link DVI-D signals long distances over fiber optic cabling. It uses all digital technology to deliver perfect pixel-for-pixel transmission of DVI computer-video images up to 2560x1600, including HDTV 1080p/60. The transmitter and receiver work together to send dual link DVI signals up to 500 meters (1,640 feet) over two multimode cables. Designed for AV systems, the DDX 102 includes integrator-friendly features such as EDID Minder® and direct device connection.

FEATURES

- Transmits dual link DVI-D signals over two multimode fiber optic cables up to 500 meters (1,640 feet)
- EDID Minder® automatically manages EDID communication between connected devices
- Industry standard LC connectors provide reliable physical connectivity and precise fiber core alignment
- Compatible with 2LC OM4 MM P pre-terminated fiber optic cable assemblies from Extron

Model	Version Description	Part Number
DDX 102 Tx	Dual Link DVI Fiber Optic Transmitter	60-1328-12
DDX 102 Rx	Dual Link DVI Fiber Optic Receiver	60-1328-13

2LC OM4 MM P

Pre-terminated multimode fiber optic cables available in various lengths.
Compatible with DDX 102, DFX 100, and HFX 100 extenders.

Model	Version Description	Part Number
2LC OM4 MM P/1	1 m (3.3')	26-671-01
2LC OM4 MM P/2	2 m (6.6')	26-671-02
2LC OM4 MM P/3	3 m (9.8')	26-671-03
2LC OM4 MM P/5	5 m (16.4')	26-671-05
2LC OM4 MM P/10	10 m (32.8')	26-671-10
2LC OM4 MM P/15	15 m (49.2')	26-671-15
2LC OM4 MM P/20	20 m (65.6')	26-671-20
2LC OM4 MM P/30	30 m (98.4')	26-671-30
2LC OM4 MM P/40	40 m (131')	26-671-40
2LC OM4 MM P/50	50 m (164')	26-671-50
2LC OM4 MM P/60	60 m (197')	26-671-60

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FIBER OPTICS

FOX T UWP 302

Two Input Fiber Optic Transmitter - Decora® Wallplate

The Extron FOX T UWP 302 is a two input fiber optic transmitter for long haul transmission of HDCP-compliant HDMI, RGBHV, or HD component video and analog stereo audio signals over fiber optic cabling. Engineered for exceptional image performance, this Decora®-style wallplate uses all digital technology to provide perfect pixel-for-pixel transmission of images up to 1920x1200, including HDTV 1080p/60. Analog signals are digitized to ensure high quality transmission to the output destination. The transmitter also provides a host of integrator-friendly features, such as EDID Minder®, Key Minder®, audio embedding with gain and attenuation control, and auto-input switching. The FOX T UWP 302 occupies a three-gang space, and is available in multimode and singlemode models.

FEATURES

- Transmits HDMI or analog video and stereo audio signals very long distances over fiber optic cabling
- All digital technology provides pixel-for-pixel performance with signals up to 1920x1200, including HDTV 1080p/60
- Digital conversion of analog video and audio input signals
- Auto-input switching
- HDCP compliant
- Key Minder® continuously verifies HDCP compliance
- EDID Minder® automatically manages EDID communication between connected devices
- Audio embedding
- LED indicators for signal presence, HDCP, and power
- Mounts in an included three-gang Decora®-style wallplate

Model	Version Description	Part Number
FOX T UWP 302 MM	Multimode - Wallplate Transmitter Black	60-1232-11
FOX T UWP 302 SM	Singlemode - Wallplate Transmitter Black	60-1232-12
FOX T UWP 302 MM	Multimode - Wallplate Transmitter White	60-1232-13
FOX T UWP 302 SM	Singlemode - Wallplate Transmitter White	60-1232-14

FOX T USW 203

Three Input Switcher with Buffered HDMI Output and Integrated Fiber Optic Transmitter for HDMI, VGA, Audio, & RS-232

The Extron FOX T USW 203 is a three input switcher with a buffered HDMI output and integrated fiber optic transmitter that provides long haul transmission of HDCP-compliant HDMI, RGBHV, or HD component video, stereo audio, and RS-232 signals over fiber optic cabling. Engineered for exceptional high resolution image performance, it uses Extron all-digital technology to deliver perfect pixel-for-pixel transmission of images up to 1920x1200, including HDTV 1080p/60. Designed specifically for AV systems, the transmitter includes many integrator-friendly features such as a buffered HDMI output, a VGA input loop-through, EDID Minder®, Key Minder®, audio embedding, audio gain and attenuation, auto-input switching, and real-time system monitoring.

FEATURES

- Transmits HDMI or analog video, stereo audio, and RS-232 signals very long distances over fiber optic cabling
- All digital technology provides pixel-for-pixel performance with signals up to 1920x1200, including HDTV 1080p/60
- Digital conversion of analog video and audio input signals
- Buffered HDMI output
- Buffered VGA input loop-through
- Key Minder® continuously verifies HDCP compliance
- EDID Minder® automatically manages EDID communication between connected devices

Model	Version Description	Part Number
FOX T USW 203 MM	Three-Input Transmitter - Multimode	60-1230-11
FOX T USW 203 SM	Three-Input Transmitter - Singlemode	60-1230-12

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FIBER OPTICS

FOX T USW 103

Three Input Switcher with Integrated Fiber Optic Transmitter for HDMI, VGA, Audio, & RS-232

The Extron FOX T USW 103 is a three input switcher with an integrated fiber optic transmitter that provides long haul transmission of HDCP-compliant HDMI, RGBHV, or HD component video, stereo audio, and RS-232 signals over fiber optic cabling. Engineered for exceptional high resolution image performance, it uses Extron all-digital technology to deliver perfect pixel-for-pixel transmission of images up to 1920x1200, including HDTV 1080p/60. Designed specifically for AV systems, the transmitter is equipped with a host of integrator-friendly features such as EDID Minder®, Key Minder®, audio embedding, audio gain and attenuation, auto-input switching, and real-time system monitoring. These features and the compact, low profile enclosure of the FOX T USW 103 allow for discreet installation in a wide variety of applications.

FEATURES

- Transmits HDMI or analog video, stereo audio, and RS-232 signals very long distances over fiber optic cabling
- All digital technology provides pixel-for-pixel performance with signals up to 1920x1200, including HDTV 1080p/60
- Digital conversion of analog video and audio input signals
- Auto-input switching
- HDCP compliant
- Key Minder® continuously verifies HDCP compliance
- EDID Minder® automatically manages EDID communication between connected devices

Model	Version Description	Part Number
FOX T USW 103 MM	Three-Input Transmitter - Multimode	60-1229-11
FOX T USW 103 SM	Three-Input Transmitter - Singlemode	60-1229-12

PowerCage™ FOX AEX 104

Four Port Fiber Optic Audio Extractor

The Extron PowerCage™ FOX AEX 104 Four Port Fiber Optic Audio Extractor is a modular board designed for the Extron PowerCage 1600 enclosure that enables independent processing and routing of audio signals in a fiber optic AV system. Each port accepts signals from a FOX Series transmitter, extracts the two-channel audio signal to provide balanced or unbalanced analog stereo output, and re-transmits the original signal to a FOX Series receiver. Output reclocking on the buffered pass-through maintains signal integrity, transmitting the fiber optic signal at the original power level. Featuring high-speed, all digital signal transmission of pixel-perfect video, audio, and control, the PowerCage FOX AEX 104 is compatible with FOX Series HDMI, DVI Plus, DVI, VGA, VGA/YUV, and AV transmitters and receivers.

FEATURES

- Provides local audio outputs for up to four FOX Series fiber optic signals, extracting analog stereo audio for independent processing and routing
- Simultaneous audio extraction ports
- Buffered input loop-throughs
- Balanced or unbalanced analog stereo audio output
- Output reclocking
- Modular, hot-swappable board designed for the PowerCage 1600 enclosure

Model	Version Description	Part Number
PowerCage FOX AEX 104 MM	Audio Extractor - Multimode	70-960-01
PowerCage FOX AEX 104 SM	Audio Extractor - Singlemode	70-960-02

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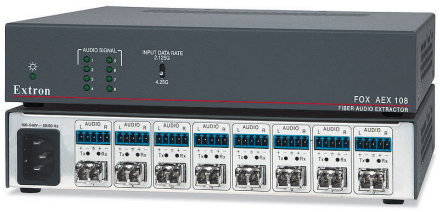
FIBER OPTICS

FOX AEX 108

Eight Port Fiber Optic Audio Extractor



The Extron FOX AEX 108 Eight Port Fiber Optic Audio Extractor enables independent processing and routing of audio signals in a fiber optic AV distribution system. Each port accepts signals from a FOX Series transmitter, extracts the two-channel audio signal to provide a balanced or unbalanced analog stereo output, and re-transmits the original signal to a FOX Series receiver. Output reclocking on the buffered pass-through maintains signal integrity, transmitting the fiber optic signal at original power levels. Featuring high-speed, all digital signal transmission of pixel-perfect video, audio, and control signals over fiber optic cabling, the FOX AEX 108 is compatible with FOX Series HDMI, DVI Plus, DVI, VGA, VGA/YUV, and AV transmitters and receivers.

FEATURES

- Provides local audio outputs for up to eight FOX Series fiber optic signals, extracting analog stereo audio for independent processing and routing
- Simultaneous audio extraction ports
- Buffered input loop-throughs
- Balanced or unbalanced analog stereo audio output
- Output reclocking
- Compatible with Extron FOX Matrix Switchers for signal distribution systems up to 1000x1000 and larger
- Compatible with Extron FOX Series distribution amplifiers and switchers
- Compatible with Extron FOX Series HDMI, DVI Plus, DVI, VGA, VGA/YUV, and AV transmitters and receivers
- Rack-mountable 1U, half rack width metal enclosure
- Internal universal power supply

Model	Version Description	Part Number
FOX AEX 108 MM	Multimode	60-1227-01
FOX AEX 108 SM	Singlemode	60-1227-02

FOX RS 104

Four Port Fiber Optic RS-232 Inserter

The Extron FOX RS 104 is a four port fiber optic RS-232 inserter for long-haul transmission of control signals to remote devices over fiber optic cabling. Each port provides a bidirectional fiber optic connection to a FOX Series extender for the insertion and extraction of control data, while maintaining a continuous pass-through link for video and audio. Engineered for reliability and exceptional high resolution image performance, it uses Extron all-digital technology to deliver pixel-perfect HDMI, DVI, computer-video, and standard definition video. Output reclocking on the buffered fiber optic outputs ensures signal integrity, sending a fiber optic signal at its original power level.

FEATURES

- RS-232 insertion from the Ethernet port to one or more of the fiber optic outputs
- Buffered fiber optic outputs
- Output reclocking
- Ethernet monitoring and control
- Available as an 850 nm multimode model for moderate-range transmissions, and a 1310 nm singlemode model for extreme distances up to 30 km (18.75 miles)
- Industry standard LC connectors provide reliable physical connectivity and precise fiber core alignment

Model	Version Description	Part Number
FOX RS 104 MM	RS-232 Inserter - Multimode	60-1273-01
FOX RS 104 SM	RS-232 Inserter - Singlemode	60-1273-02

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FIBER OPTICS

PowerCage™ FOX SR HDMI

Fiber Optic Scaling Receiver for HDMI, Audio, and RS-232

The Extron PowerCage™ FOX SR HDMI Fiber Optic Extender is a modular scaling receiver for the PowerCage 1600 enclosure that enables long haul transmission of HDCP-compliant HDMI video, stereo audio, and RS-232 control signals over fiber optic cabling. Engineered for exceptional high resolution performance, it uses Extron all-digital technology to distribute perfect pixel-for-pixel HDMI computer-video images up to WUXGA 1920x1200, including HDTV 1080p/60. Designed specifically for AV systems, the PowerCage FOX SR HDMI also includes a host of integrator-friendly features such as Key Minder®, audio de-embedding, selectable HDMI audio pass-through, Auto Input Memory, and internal test patterns.

FEATURES

- Accepts fiber optic signals from a FOX Series transmitter, and provides scaled HDMI video, stereo audio, and RS-232 control signals
- High performance scaler provides selectable output resolutions up to 1920x1200, including HDTV 1080p/60
- HDCP compliant
- Key Minder® continuously verifies HDCP compliance
- HDMI, DVI, RGB, and HD component video upscaling and downscaling
- Modular, hot-swappable board designed for the PowerCage 1600 enclosure

Model	Version Description	Part Number
PowerCage FOX SR HDMI MM	Scaling Receiver - Multimode	70-904-21
PowerCage FOX SR HDMI SM	Scaling Receiver - Singlemode	70-904-22

FOXBOX SR HDMI

Fiber Optic Scaling Receiver for HDMI, Audio, and RS-232

The Extron FOXBOX SR HDMI Fiber Optic Extender is a scaling receiver for long haul transmission of HDCP-compliant HDMI, audio, and RS-232 control signals over fiber optic cabling. Engineered for exceptional high resolution image performance, it uses Extron all-digital technology to distribute perfect pixel-for-pixel HDMI computer-video images up to WUXGA 1920x1200, including HDTV 1080p/60. Designed specifically for AV systems, the FOXBOX SR HDMI also includes a host of integrator-friendly features such as Key Minder®, audio de-embedding, Auto Input Memory, and internal test patterns. A compact, low profile enclosure allows for discreet installation behind a flat-panel display.

FEATURES

- Accepts fiber optic signals from FOX Series transmitters and provides scaled HDMI video, stereo audio, and RS-232 control signals
- High performance scaler provides selectable output resolutions up to 1920x1200, including HDTV 1080p/60
- HDCP compliant
- Key Minder® continuously verifies HDCP compliance
- HDMI, DVI, RGB, and HD component video upscaling and downscaling
- HDMI audio de-embedding with analog stereo outputs
- Compatible with Extron FOX Series HDMI, DVI Plus, DVI, VGA, and VGA/YUV transmitters

Model	Version Description	Part Number
FOXBOX SR HDMI MM	Scaling Receiver - Multimode	60-1187-21
FOXBOX SR HDMI SM	Scaling Receiver - Singlemode	60-1187-22

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FIBER OPTICS

FOX I/O 1616 HD-SDI

16x16 Multi-Rate SDI I/O Board for the FOX Matrix 14400 and FOX Matrix 320x

The Extron FOX I/O 1616 HD-SDI board is available as an option for the FOX Matrix 14400 and FOX Matrix 320x Modular Fiber Optic Matrix Switchers, and enables connection to local multi-rate SDI-equipped devices. This board offers a 16x16 configuration for switching and distribution of multi-rate SDI signals up to 2.97 Gbps, including SDI, HD-SDI, and 3G-SDI. With this board, the FOX Matrix switchers can be configured as dedicated multi-rate SDI matrix switchers, or with a combination of multi-rate SDI and fiber optic matrix switching. The FOX I/O 1616 HD-SDI board is compliant with SMPTE 259M, 292M, 424M, and ITU digital video standards.

FEATURES

- Supports multi-rate SDI signals up to 2.97 Gbps
- Multi-rate SDI I/O board for the FOX Matrix 14400 and FOX Matrix 320x
- Passes embedded audio, ancillary ID and metadata information, and SD/HD-SDTI digital video signals
- Immunity to pathological signal patterns
- Hot-swappable
- Individually buffered inputs and outputs
- Input equalization and reclocking on buffered outputs

Model	Version Description	Part Number
FOX I/O 1616 HD-SDI	16x16 I/O Board - Multi-Rate SDI	70-966-01

FOX 3G I/O SM P

Fiber Optic Multi-Rate SDI I/O Board for the FOX Matrix Series

FOX 3G I/O 1616 SM P

FOX 3G I/O 88 SM P

The Extron FOX 3G I/O SM P board is available as an option for the FOX Matrix Series modular fiber optic matrix switchers, and enables the transmission and distribution of fiber optic multi-rate SDI signals, including pathological signals, over singlemode fiber optic cabling. The board offers an 8x8 or 16x16 configuration for switching and distribution of multi-rate SDI signals up to 2.97 Gbps, including SDI, HD-SDI, and 3G-SDI. With the board, a FOX Matrix switcher can be configured as a dedicated multi-rate SDI matrix switcher, or with a combination of multi-rate SDI and fiber optic matrix switching solutions. The FOX 3G I/O SM P board is compliant with SMPTE 259M, 292M, 424M, RP 178, and RP 198 for pathological immunity, and ITU digital video standards.

FEATURES

- Fiber optic multi-rate SDI I/O board for the FOX Matrix Series
- Supports multi-rate SDI at rates up to 2.97 Gbps
- Immunity to pathological signal patterns
- Passes embedded audio, ancillary ID and metadata information, and SD/HD-SDTI digital video signals
- Hot-swappable
- Automatic output reclocking
- Real-time status LED indicators for monitoring and troubleshooting
- Available as a 1310 nm singlemode I/O board for extreme distances up to 30 km (18.75 miles)

Model	Version Description	Part Number
FOX 3G I/O 1616 SM P	16x16 I/O Board - Singlemode, Path Comp	70-965-01
FOX 3G I/O 88 SM P	8x8 I/O Board - Singlemode, Path Comp	70-965-02

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FIBER OPTICS

FOX USB Extender

Fiber Optic Extender for USB Peripherals

The Extron FOX USB Extender is a fiber optic transmitter and receiver set for long haul transmission of USB signals over fiber optic cabling. Engineered for reliability and exceptional performance, it uses Extron-exclusive all digital technology to deliver perfect transmission of USB 2.0, 1.1, and 1.0 signals with data transfer rates up to 480 Mbps. Designed specifically for AV systems, the FOX USB Extender also includes a host of integrator friendly features such as peripheral emulation, an active four-port hub that supplies 5 Volts, 500 mA per port, and real-time system monitoring. Compact, low profile enclosures allow for discreet installation.

FEATURES

- Extends USB peripherals very long distances over fiber optic cabling
- Supports USB 2.0, 1.1, and 1.0 standards with data transfer rates up to 480 Mbps
- Receiver features an integrated four-port hub with 5 Volts, 500 mA available on each port
- Peripheral Emulation
- Real-time status LED indicators for troubleshooting and monitoring
- Compatible with Extron FOX Matrix Switchers for signal distribution systems up to 1000x1000 and larger

FOX USB Extender Tx

FOX USB Extender Rx

Model	Version Description	Part Number
FOX USB Extender Tx MM	Multimode - Transmitter	60-1234-11
FOX USB Extender Rx MM	Multimode - Receiver	60-1234-21
FOX USB Extender Tx SM	Singlemode - Transmitter	60-1234-12
FOX USB Extender Rx SM	Singlemode - Receiver	60-1234-22

HDMI & DVI

DTP HDMI 230

HDMI Twisted Pair Extender

The Extron DTP HDMI 230 is a transmitter and receiver set for transmission of HDMI, audio, and bidirectional RS-232 and IR signals over a single CATx cable. It provides an economical and effective means for extending HDMI with embedded multi-channel audio from HDMI-equipped devices. In addition, the DTP HDMI 230 accepts analog stereo audio signals and digitizes them for simultaneous transmission over the same twisted pair cable. It is capable of sending 1080p/60 Deep Color and 1920x1200 signals up to 230 feet (70 meters). The compact enclosure sizes and remote powering of either unit make the DTP HDMI 230 ideal for extending HDMI, audio, and bidirectional control in space-challenged environments.

FEATURES

- Transmits HDMI plus control and analog audio over a single CATx cable
- Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable
- Extron strongly recommends using shielded twisted pair cabling for optimal performance
- Accepts additional analog stereo audio signals
- Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC
- HDCP compliant

DTP HDMI 230 Tx

DTP HDMI 230 Rx

Model	Version Description	Part Number
DTP HDMI 230 Tx	HDMI Transmitter	60-1271-12
DTP HDMI 230 Rx	HDMI Receiver	60-1271-13

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HDMI & DVI

DTP HDMI 230 D

HDMI Twisted Pair Extender - Decora® Wallplate

DTP HDMI 230 D Tx

DTP HDMI 230 D Rx

The Extron DTP HDMI 230 D is a Decora®-style transmitter and receiver set for transmission of HDMI, audio, and bidirectional RS-232 and IR signals over a single CATx cable. It provides an economical and effective means for extending HDMI with embedded multi-channel audio from HDMI-equipped devices. In addition, the DTP HDMI 230 D accepts analog stereo audio signals and digitizes them for simultaneous transmission over the same twisted pair cable. It is capable of sending 1080p/60 Deep Color and 1920x1200 signals up to 230 feet (70 meters). The wall-mountable design and remote powering of either unit make the DTP HDMI 230 D ideal for extending HDMI, audio, and bidirectional control while offering aesthetically pleasing integration in space-challenged environments.

FEATURES

- Transmits HDMI plus control and analog audio over a single CATx cable
- Extends 1080p/60 Deep Color and 1920x1200 signals up to 230 feet (70 meters)
- Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable
- Extron strongly recommends using shielded twisted pair cabling for optimal performance
- Accepts additional analog stereo audio signals
- Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC

Model	Version Description	Part Number
DTP HDMI 230 D Tx	Decora Transmitter - Black	60-1215-12
DTP HDMI 230 D Tx	Decora Transmitter - White	60-1215-13
DTP HDMI 230 D Rx	Decora Receiver - Black	60-1215-22
DTP HDMI 230 D Rx	Decora Receiver - White	60-1215-23

DTP HDMI 330

Long Distance HDMI Twisted Pair Extender

DTP HDMI 330 Tx

DTP HDMI 330 Rx

The Extron DTP HDMI 330 is a transmitter and receiver set for long distance transmission of HDMI, audio, and bidirectional RS-232 and IR signals over a single CATx cable. It provides an effective means for extending HDMI with embedded multi-channel audio from HDMI-equipped devices. In addition, the DTP HDMI 330 accepts analog stereo audio signals and digitizes them for simultaneous transmission over the same twisted pair cable. It is capable of sending 1080p/60 Deep Color and 1920x1200 signals up to 330 feet (100 meters). The compact enclosure sizes and remote power capability make the DTP HDMI 330 ideal for extending HDMI, audio, and bidirectional control in space-challenged environments.

FEATURES

- Transmits HDMI plus control and analog audio over a single CATx cable
- Extends 1080p/60 Deep Color and 1920x1200 signals up to 330 feet (100 meters)
- Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable
- Extron strongly recommends using shielded twisted pair cabling for optimal performance
- Accepts additional analog stereo audio signals
- Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC

Model	Version Description	Part Number
DTP HDMI 330 Tx	HDMI Transmitter	60-1331-12
DTP HDMI 330 Rx	HDMI Receiver	60-1331-13

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HDMI & DVI

DTP DVI 230

DVI Twisted Pair Extender

DTP DVI 230 Tx DTP DVI 230 Rx

The Extron DTP DVI 230 is a transmitter and receiver set for transmission of DVI-D video, audio, and bidirectional RS-232 and IR signals over a single CATx cable. It provides an economical and effective means for extending single link DVI-D or HDMI signals. In addition, the DTP DVI 230 accepts analog stereo audio signals and digitizes them for simultaneous transmission over the same twisted pair cable. It is capable of sending 1920x1200 and 1080p/60 Deep Color signals up to 230 feet (70 meters). The transmitter is equipped with a buffered DVI loop-through output to support a local computer monitor. The compact enclosure sizes and remote powering of either unit make the DTP DVI 230 ideal for extending DVI-D, audio, and bidirectional control in space-challenged environments.

FEATURES

- Transmits single link DVI-D plus control and analog audio over a single CATx cable
- Extends 1920x1200 and 1080p/60 Deep Color signals up to 230 feet (70 meters)
- Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable
- Extron strongly recommends using shielded twisted pair cabling for optimal performance
- Accepts additional analog stereo audio signals
- DVI input loop-through

Model	Version Description	Part Number
DTP DVI 230 Tx	DVI Transmitter	60-1272-12
DTP DVI 230 Rx	DVI Receiver	60-1272-13

DTP DVI 230 D

DVI Twisted Pair Extender - Decora® Wallplate

DTP DVI 230 D Tx DTP DVI 230 D Rx

The Extron DTP DVI 230 D is a Decora®-style transmitter and receiver set for transmission of DVI-D video, audio, and bidirectional RS-232 and IR signals over a single CATx cable. It provides an economical and effective means for extending single link DVI-D or HDMI signals. The DTP DVI 230 D also accepts analog stereo audio signals and digitizes them for simultaneous transmission over the same twisted pair cable. It is capable of sending 1920x1200 and 1080p/60 Deep Color signals up to 230 feet (70 meters). The transmitter is equipped with a buffered DVI loop-through output to support a local computer monitor. The wall-mountable design and remote powering of either unit make the DTP DVI 230 D ideal for extending DVI-D, audio, and bidirectional control while offering aesthetically pleasing integration in space-challenged environments.

FEATURES

- Transmits single link DVI-D plus control and analog audio over a single CATx cable
- Extends 1920x1200 and 1080p/60 Deep Color signals up to 230 feet (70 meters)
- Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable
- Extron strongly recommends using shielded twisted pair cabling for optimal performance
- Accepts additional analog stereo audio signals
- DVI input loop-through

Model	Version Description	Part Number
DTP DVI 230 D Tx	Decora Transmitter - Black	60-1214-12
DTP DVI 230 D Tx	Decora Transmitter - White	60-1214-13
DTP DVI 230 D Rx	Decora Receiver - Black	60-1214-22
DTP DVI 230 D Rx	Decora Receiver - White	60-1214-23

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HDMI & DVI

HDMI DA2

Two Output HDMI Distribution Amplifier

The Extron HDMI DA2 is a one input, two output HDMI distribution amplifier. The HDMI DA2 supports HDMI specification features including data rates up to 6.75 Gbps, 12-bit Deep Color, 3D, Lip Sync, and HD lossless audio formats. This HDCP-compliant distribution amplifier supports HDTV 1080p/60 and PC resolutions up to 1920x1200. The HDMI DA2 features two Extron-exclusive technologies: EDID Minder, which maintains continuous EDID communication between connected devices, and Key Minder, which continuously authenticates HDCP encryption between all devices, ensuring the simultaneous distribution of source content to both displays. The HDMI DA2 is ideal for applications that require the distribution of an HDMI source signal to two displays.

FEATURES

- EDID Minder® automatically manages EDID communication between connected devices
- Key Minder® continuously verifies HDCP compliance
- HDCP compliant
- Supports HDTV 1080p/60 and PC resolutions up to 1920x1200
- Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, Lip Sync, and HD lossless audio formats
- Automatic input cable equalization to 50 feet at 1080p/60 with 8-bit color when used with Extron HDMI Pro Series cable
- Automatic color bit depth management
- Output muting via RS-232

Model	Version Description	Part Number
HDMI DA2	Two Output HDMI	60-997-01

DVI 110 Plus

DVI Signal Regenerator and Audio Extender with EDID Minder®

DVI 110 Plus D

DVI 110 Plus AAP

The Extron DVI 110 Plus is a DVI signal regenerator and audio extender with EDID Minder. It retimes and reshapes marginal or noisy DVI-D signals, ensuring a strong, stable digital signal. It supports HDMI signals with the use of appropriate adapters. The DVI 110 Plus features EDID Minder, which maintains continuous EDID communication with the source and ensures proper video output even if the display device is off. It also accepts unbalanced computer stereo audio and converts it to balanced, line level stereo audio, eliminating noise usually associated with unbalanced audio over long cable runs. The DVI 110 Plus is available in Decora®-style and AAP form factors and is ideal for improving system performance by eliminating digital signal noise and reducing jitter at the output of the source.

FEATURES

- Retimes and reshapes marginal or noisy DVI signals at the source
- Active audio interfacing converts unbalanced audio to balanced line level audio
- EDID Minder® automatically manages EDID communication between connected devices
- Supports PC resolutions up to 1920x1200 and HDTV 1080p/60
- Single link DVI compatible
- Choice of Decora® -style or AAP - Architectural Adapter Plate form factors

Model	Version Description	Part Number
DVI 110 Plus D	Decora - White	60-1263-22
DVI 110 Plus AAP	AAP - Black	60-1264-12
DVI 110 Plus AAP	AAP - White	60-1264-22

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Extron

HDMI & DVI

LockIt® Cable Adapter Tether

Security Tether Kit for Cable Adapters

The Extron LockIt Cable Adapter Tether is designed to secure cable adapters, such as the Extron DPM-HDMIF DisplayPort-to-HDMI pigtail adapter, to its host cable, minimizing loss or theft. Simply slip one end of the 14" (35.6 cm) LockIt Adapter Tether over the adapter pigtail, and the other over the cable end, and crimp the metal sleeves to hold the tether in place. Matching white heat shrink tubing is provided to cover the metal sleeves for a clean, finished appearance. The LockIt Adapter Tether is available in white and sold in packages of 10.

FEATURES

- Secures cable adapter to its host cable to prevent loss or minimize theft
- Ideal for use with pigtail-style adapters such as the Extron DPM-HDMIF
- Easy to install - adjusts to fit a variety of pigtail lengths and cable types
- 14" (35.6 cm) white nylon coated stainless steel wire construction
- Includes crimp-style metal sleeves and matching heat shrink tubing
- Sold in packages of 10

Model	Version Description	Part Number
LockIt Cable Adapter Tether	LockIt Adapter Tether; Package of 10	101-021-10

EDID 101H

EDID Emulator with EDID Minder® for HDMI

The Extron EDID 101H is an EDID Emulator for HDMI signal sources. It features EDID Minder®, an Extron exclusive technology designed to provide constant and continuous EDID - Extended Display Identification Data management. EDID Minder ensures that the source powers up properly and reliably outputs content. Pre-stored EDID is communicated to the source based on a user-selected resolution and refresh rate. Alternatively, the EDID 101H can be set to capture and store EDID information when connected to a display. A unique HPD - Hot Plug Detect port provides control for remote cameras and other signal sources that require a periodic HPD trigger. The EDID 101H is housed in a compact 1" high, quarter rack width enclosure for convenient, discreet installation. An energy-efficient external universal power supply is included.

FEATURES

- EDID Minder® automatically manages EDID communication between connected devices
- Selectable resolutions and refresh rates
- EDID capture mode
- HDCP compliant
- Interface Format Correction
- HPD - Hot Plug Detect control port
- 1" (2.5 cm) high, quarter rack width metal enclosure

Model	Version Description	Part Number
EDID 101H	EDID Emulator with EDID Minder® for HDMI....	60-1205-01

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HDMI & DVI

DMS 2000 and DMS 3200

Modular DVI Matrix Switchers

The Extron DMS Series Modular DVI Matrix Switchers represent a new level of matrix switching for DVI. They combine the simplicity and reliability of a fixed I/O matrix switcher with the convenience and flexibility of a modular matrix switcher. DMS Series matrix switchers accept any combination of available DMS DVI or DMS Fiber matrix boards. Input and output boards are available in 4-port input, 4-port output, and 4x4 I/O versions, providing various I/O size combinations with sizes from 4x4 to 36x36, depending on the DMS Matrix Switcher Frame selected. The DMS Series is ideal for a wide range of applications that require routing of high-resolution DVI digital video signals without copy protection.

FEATURES

- Available in I/O sizes from 4x4 to 32x32
- Modular and field-upgradeable design
- Choice of DMS DVI or Fiber Matrix I/O boards
- Supports data rates to 4.95 Gbps - 1.65 Gbps per color
- EDID Minder® automatically manages EDID communication between connected devices
- Ethernet monitoring and control
- Control software

DMS 2000

DMS 3200

Model	Version Description	Part Number
DMS 2000 Frame	3U, 5-Slot Frame	60-1349-01
DMS 3200 Frame	5U, 8-Slot Frame	60-1350-01

DMS Fiber Matrix Boards

Single-Fiber Multimode Matrix Boards for DMS Series Matrix Switchers

The Extron DMS Fiber Matrix Boards are fiber optic I/O boards for the DMS Series matrix switchers. The DMS Fiber Matrix Boards are compatible with Extron DFX Series DVI extenders and can support transmission distances up to 300 meters on a single, multimode fiber. The boards are equipped with standard LC connectors for reliable physical connectivity and precise fiber core alignment. They are available in 4x4 I/O, 4-input, and 4-output configurations, and can be mixed-and-matched with available DMS Series DVI Matrix Boards for optimum flexibility in system design.

FEATURES

- Available in 4-port input, 4-port output, and 4x4 I/O versions
- Supports transmission of DVI signals for distances of up to 300 meters over a single multimode fiber
- Compatible with Extron DFX Series single-fiber DVI extenders
- Supports data rates to 4.95 Gbps - 1.65 Gbps per color
- Industry standard LC connectors provide reliable physical connectivity and precise fiber core alignment
- Automatically disables laser when fiber is disconnected

DMS I/O 44 Fiber

DMS 4i Fiber

DMS 4o Fiber

Model	Version Description	Part Number
DMS I/O 44 Fiber	4x4 I/O Fiber	70-975-01
DMS 4i Fiber	4-Input Fiber	70-975-02
DMS 4o Fiber	4-Output Fiber	70-975-03

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Extron

HDMI & DVI

HDMI Ultra Series

Ultra Flexible High Speed HDMI Cables

The Extron HDMI Ultra Series cables are designed to transmit high-speed digital video and audio signals. The HDMI Ultra Series is engineered with Extron-exclusive ultra-flexible, 30 AWG cable and features a low bend radius and compact, gold-plated connectors. They are ideal for applications with tight equipment racks or AV presentation furniture, or with wall-mount or pole-mount displays. The HDMI Ultra cables conform to HDMI High Speed cable specifications and are available in lengths from 6 feet to 15 feet (1.8 m to 4.5 m).

FEATURES

- Certified for use with Cable Cubby® and HSA surface access enclosures
- Ultra flexible HDMI cables
- 1080p/60 verified
- Available in lengths from 6 feet to 15 feet (1.8 m to 4.5 m)
- Conforms to HDMI High Speed Cable Specifications:
  - Supports signals up to 1920x1200 @ 60 Hz and 1080p/60
  - Data rates to 10.2 Gbps
  - Refresh rates to 120 Hz
  - Color depth to 48 bits - 16 bits per color
- 30 AWG copper wire construction
- Gold-plated contacts

Model	Version Description	Part Number
HDMI Ultra/6	6' (1.8 m) High Speed	26-663-06
HDMI Ultra/9	9' (2.7 m) High Speed	26-663-09
HDMI Ultra/12	12' (3.6 m) High Speed	26-663-12
HDMI Ultra/15	15' (4.5 m) High Speed	26-663-15

DVID SL Ultra Series

Ultra Flexible Single Link DVI-D Cables

The Extron DVID SL Ultra Series cables are designed to transmit high resolution single link DVI-D signals. The DVID SL Ultra Series is engineered with Extron-exclusive ultra-flexible, 30 AWG cable and features a low bend radius and compact, gold-plated connectors. They are ideal for applications with tight equipment racks or AV presentation furniture, or with wall-mount or pole-mount displays. The DVID SL Ultra cables support resolutions up to 1920x1200 @ 60 Hz and 1080p/60 and are available in lengths from 1.5 feet to 15 feet (0.4 m to 4.5 m).

FEATURES

- Certified for use with Cable Cubby® and HSA surface access enclosures
- Ultra flexible single link DVI cables
- 1080p/60 verified
- Available in lengths from 1.5 feet to 15 feet (0.4 m to 4.5 m)
- Supports single link DVI-D signals up to 1920x1200 @ 60 Hz and 1080p/60:
  - Data rates to 4.95 Gbps
  - Refresh rates to 60 Hz
  - Color depth to 24 bits - 8 bits per color
- 30 AWG copper wire construction
- Gold-plated contacts

Model	Version Description	Part Number
DVID SL Ultra/1.5	1.5' (45 cm)	26-662-02
DVID SL Ultra/3	3' (90 cm)	26-662-03
DVID SL Ultra/6	6' (1.8 m)	26-662-06
DVID SL Ultra/9	9' (2.7 m)	26-662-09
DVID SL Ultra/12	12' (3.6 m)	26-662-12
DVID SL Ultra/15	15' (4.5 m)	26-662-15

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DISPLAYPORT

DP DA2

Two Output DisplayPort Distribution Amplifier

The Extron DP DA2 is a one input, two output DisplayPort distribution amplifier. The DP DA2 is HDCP compliant and supports data rates up to 10.8 Gbps and computer resolutions up to 2560x1600 @ 60 Hz. The DP DA2 features two Extron-exclusive technologies: EDID Minder®, which maintains continuous EDID communication between connected devices, and Key Minder®, which continuously authenticates HDCP encryption between all devices, ensuring the simultaneous distribution of source content to both displays. Dual-mode DisplayPort support allows source signals to be sent to HDMI, DVI, or VGA display devices with appropriate adapters. The DP DA2 is ideal for applications that require the distribution of a DisplayPort source signal to two displays.

FEATURES

- EDID Minder® automatically manages EDID communication between connected devices
- Key Minder® continuously verifies HDCP compliance
- Supports DisplayPort data rates up to 10.8 Gbps
- Supports PC resolutions up to 2560x1600 @ 60 Hz and HDTV 1080p/60
- HDCP compliant
- Outputs support Dual-mode DisplayPort for interoperability with HDMI, DVI, and VGA display devices
- Output muting control via RS-232 or contact closure

Model	Version Description	Part Number
DP DA2	Two Output DisplayPort	60-1221-01

SW2 DP

Two Input DisplayPort Switcher

The Extron SW2 DP is a two input, one output DisplayPort switcher. The SW2 DP is HDCP compliant and supports data rates up to 10.8 Gbps and computer resolutions up to 2560x1600 @ 60 Hz. It features EDID Minder®, which maintains continuous EDID communication with connected devices and ensures that the DisplayPort sources power up properly and maintain correct video output. The SW2 DP provides automatic input cable equalization up to 25 feet at 2560x1600 @ 60 Hz on Extron DisplayPort Series cable. Multiple control points, including front panel, RS-232, and auto-input switching, simplify integration into a variety of system designs. The SW2 DP switcher is ideal for applications that require the routing of two DisplayPort sources to a single display.

FEATURES

- EDID Minder® automatically manages EDID communication between connected devices
- Supports DisplayPort data rates up to 10.8 Gbps
- Supports PC resolutions up to 2560x1600 @ 60 Hz and HDTV 1080p/60
- HDCP compliant
- Automatic input cable equalization to 25 feet (7.6 meters) at 2560x1600 @ 60 Hz with Extron DisplayPort cables

Model	Version Description	Part Number
SW2 DP	Two Input DisplayPort	60-1210-01

DP Series

DisplayPort Adapter Cables

DP-HDMIF/6

DP-DVID/6

DP-VGA/6

The Extron DP Series of active, one-way DisplayPort adapter cables allow transmission of digital signals from a dual-mode DisplayPort enabled source. Built-in active circuitry converts DisplayPort into HDMI, single link DVI, or VGA signals, depending on the model in use. EDID and HDCP information is passed through between source and display. DP Series adapter cables are ideal for integrating DisplayPort source devices into new or existing AV systems.

FEATURES

- Certified for use with Cable Cubby® and HSA surface access enclosures
- Provides connectivity between dual-mode DisplayPort enabled sources and HDMI, single link DVI, or VGA displays
- Complies with VESA Interoperability Guideline
- Passes EDID information from display to the source
- DisplayPort to HDMI female adapter cable includes a male to male HDMI coupler and LockIt® HDMI cable lacing bracket

Model	Version Description	Part Number
DP-HDMIF/6	DP to HDMI F, Active, 6'	26-680-06
DP-DVID/6	DP to DVI-D SL, Active, 6' (1.8 m)	26-681-06
DP-VGA/6	DP to VGA, Active, 6' (1.8 m)	26-682-06

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Extron

USB

USB PowerPlate 200 Series

Two Outlet USB Power Adapters

The Extron USB PowerPlate 200 provides two 5 VDC USB power outlets and 2.1 A / 10.5 watts of total power for charging mobile devices such as smartphones and tablets. Its unique design can deliver full power to either USB outlet when only one device is connected, ideal for use with higher-current demand tablets. The USB PowerPlate 200 is available in three architectural form factors: Black, single space or double space AAP - Architectural Adapter Plates; black or white double space MAAP - Mini Architectural Adapter Plates; and a white Decora-style wallplate. All versions include an energy-efficient, external universal power supply.

FEATURES

- Provides two 5 VDC USB power outlets and up to 2.1 A / 10.5 watts of power for charging mobile devices
- Ideal for use with iOS and Android phones or tablets
- Choice of AAP - Architectural Adapter Plate or Decora-style form factors
- USB PowerPlate 200 AC AAP includes one unswitched, Edison-style AC power outlet
- Energy-efficient external universal power supply, included, replacement part # 70-775-01

Model	Version Description	Part Number
USB PowerPlate 200 MAAP	Double-space, Black	60-1355-02
USB PowerPlate 200 MAAP	Double-space, White	60-1355-03
USB PowerPlate 200 AC AAP	One US AC, Double-space, Black	60-1356-02
USB PowerPlate 200 AAP	Single-space, Black	60-1346-02
USB PowerPlate 200 D	Decora-style, White	60-1347-03

USB PowerPlate 200 D

USB PowerPlate 200 MAAP

USB PowerPlate 200 AC AAP

USB PowerPlate 200 AAP

LINE DRIVERS & EXTENDERS

Extender Plus

VGA and Audio Line Driver with EDID Minder®

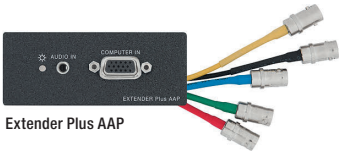
The Extron Extender Plus is a one input, one buffered output line driver that extends VGA-QXGA and HDTV component video signals up to 250 feet (75 m) on Extron MHR Mini High Resolution or similar cables. It also accepts unbalanced computer stereo audio and converts it to balanced, line level stereo audio. A variable level/peaking control provides equalization to compensate for signal loss and high frequency attenuation due to long cable runs. To simplify integration, the Extender Plus features EDID Minder®, an Extron-exclusive technology that automatically manages EDID communication between devices. Available in Decora®-style and AAP form factors, the Extender Plus is ideal for a wide range of applications to extend computer-video and audio signals over long cable runs.

FEATURES

- Extends VGA signals up to 250 feet (75 meters) over Extron MHR Mini High Resolution cable
- 400 MHz (-3 dB) RGB video bandwidth
- Supports PC resolutions up to 2048x1536 and HDTV component video signals
- EDID Minder® automatically manages EDID communication between connected devices
- Three-position peaking/gain control helps maintain video signal integrity over long cable runs
- Active PC audio interfacing converts unbalanced audio to balanced line level audio

Model	Version Description	Part Number
Extender Plus D	Decora - White	60-1261-22
Extender Plus AAP	AAP - Black	60-1262-12
Extender Plus AAP	AAP - White	60-1262-22

Extender Plus D



Extender Plus AAP

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ARCHITECTURAL CONNECTIVITY

Retractor

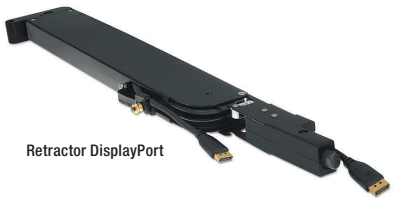
Cable Retraction System for Cable Cubby® Enclosures

The Extron Retractor is a unique, patent-pending cable retraction and management system designed to work with new or previously installed Cable Cubby® enclosures that provides discreet, convenient access to AV cables. The Retractor is available in versions to support most AV and data signal types including VGA, Network, PC Audio, USB, DVI, Mini DisplayPort, DisplayPort, or HDMI. The cables extend up to three feet (90 cm) and are held securely in place at the desired length.

FEATURES

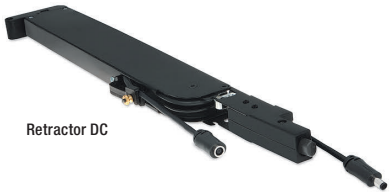
- Patent-pending cable retraction system maintains signal integrity
- Designed for easy integration with Cable Cubby® and TLE Series enclosures, and Cable Cubby TouchLink® touchpanels
- Mount up to 3 Retractor modules on each side of the enclosure
- Cables extend up to three feet (90 cm)
- Holds cable securely in place at a user-defined length
- Simple push-button release retracts cable into Cable Cubby enclosure after use
- Flexible installation options
- Available in a variety of commonly used AV and data connectors
- Retractor DC extends DC power for many Dell, HP, and Compaq PCs
- Retractor VGA SM provides remote input selection and control of select Extron switchers as part of an AV collaboration system
- Optional horizontal mounting bracket supports up to three Retractor modules

Model	Version Description	Part Number
Retractor DisplayPort	DisplayPort Male to Male	70-983-07
Retractor VGA SM	VGA "Show Me" Retractor	70-983-12
Retractor DC	DC Power Extension: Dell, HP, other PCs	70-983-10



Retractor DisplayPort

Retractor VGA SM



Retractor DC

Retractor XL

Extended Length Cable Retraction System for Cable Cubby® Enclosures

The Extron Retractor XL is a unique, patent-pending cable retraction and management system designed to work with new or previously installed Cable Cubby® enclosures that provides discreet, convenient access to AV cables. The Retractor XL is available in versions to support most AV and data signal types including VGA, Network, PC Audio, USB, DisplayPort, or HDMI. The cables extend up to five feet (152 cm) and are held securely in place at the desired length. The Extron Retractor Series is also available for applications where cable extension of 3 feet (90 cm) is appropriate.

FEATURES

- Patent-pending cable retraction system maintains signal integrity
- Designed for easy integration with Cable Cubby® and TLE Series enclosures, and Cable Cubby TouchLink® touchpanels
- Mount up to 3 Retractor modules on each side of the enclosure
- Cables extend up to five feet (152 cm)
- Holds cable securely in place at a user-defined length
- Simple push-button release retracts cable into Cable Cubby enclosure after use
- Flexible installation options
- Available in a variety of commonly used AV and data connectors
- Retractor XL DC extends DC power for many Dell, HP, and Compaq PCs
- Retractor XL VGA SM provides remote input selection and control of select Extron switchers as part of an AV collaboration system
- Optional horizontal mounting bracket supports up to three Retractor modules
- Optional filler modules available

Model	Version Description	Part Number
Retractor XL VGA	VGA Male to Male	70-1001-01
Retractor XL PC Audio	3.5 mm Stereo Audio M to M	70-1001-02
Retractor XL Network	Network CAT5e	70-1001-03
Retractor XL HDMI	HDMI Male to Male	70-1001-04
Retractor XL USB	USB A Male to Male	70-1001-05
Retractor XL DisplayPort	DisplayPort Male to Male	70-1001-07
Retractor XL DC	DC Power Extension: Dell, HP, other PCs	70-1001-10
Retractor XL VGA-A	VGA M-M and 3.5 mm Stereo M-M	70-1001-11
Retractor XL VGA SM	VGA "Show Me" Retractor	70-1001-12

Retractor XL HDMI

Retractor XL VGA SM

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ARCHITECTURAL CONNECTIVITY

WPB 109

One-Gang WPB Wallplate for HDMI, VGA, and Stereo Audio

The Extron WPB 109 wallplate for HDMI, VGA, and Stereo Audio is specifically designed for a standard one gang-sized junction box. It features a pass-through VGA female to VGA female on 6” pigtail, HDMI female adapter on 10” pigtail, and a 3.5 mm stereo mini jack to captive screw for ease of integration in classrooms, conference rooms, and other facilities where convenient, wall-mounted AV connectivity is required. The HDMI and VGA cables facilitate DDC transmission, such as of EDID communications and HDCP key exchange, between the display and the source. The WPB 109 wallplate is made of metal and is available in black or white finish.

FEATURES

- HDMI: HDMI female to HDMI female 10” pigtail
- Computer video: 15-pin female to 15-pin female on 6” pigtail
- Stereo audio: 3.5 mm stereo mini jack to captive screw
- Signals passed through unprocessed
- HDCP compliant
- Supports DDC transmission

Model	Version Description	Part Number
WPB 109	Black	60-1371-11
WPB 109	White	60-1371-21

WPD 140 A

Pass-Through Wallplate - Decora® for VGA, Stereo Audio, and Control

The Extron WPD 140 A is a pass-through, Decora®-style wallplate for VGA, stereo audio, and control. It features a pass-through VGA Female to VGA Female connector on 6” pigtail along with a 3.5 mm stereo mini jack to captive screw adapter, providing a simple and elegant integration solution. The audio port can be covered when not in use. A convenient pass-through port for IR or RS-232 signals provides for control of DVD players, displays, switchers or other RS-232 or IR controllable devices. The WPD 140 A includes a matching white single-gang Decora-style wallplate and covers for the audio and control ports, and fits a standard US one-gang size junction box.

FEATURES

- VGA Female connector to VGA Female on 6” pigtail
- Computer audio: 3.5 mm stereo mini jack to captive screw
- Signals passed through unprocessed
- Passes EDID information from VGA display to the source
- One-gang Decora®-style module
- IR or RS-232 pass-through on captive screw for easy termination
- Includes a matching white single-gang Decora®-style wallplate

Model	Version Description	Part Number
WPD 140 A	VGA w/Audio Captive Screw and Control	70-766-23

WPC 210 A

Wallplates with Pass-Through Connectors for HDMI and PC Audio

The Extron WPC 210 A Series of wallplates is designed specifically for 80 mm European one-gang or MK Electric type British standard one-gang boxes. These plates feature an HDMI female to HDMI female connector on 6” (15 cm) pigtail and a 3.5 mm stereo audio with pass-through output on captive screw connectors for ease of integration in standard, 40 mm deep junction boxes, providing a simple integration solution. The audio port can be covered when not in use. The Extron WPC 210 A Series wallplate is made of metal and is available in RAL9010 white or white, depending on version.

FEATURES

- HDMI: HDMI female to HDMI female connector on 6” (15 cm) pigtail
- Stereo audio: 3.5 mm stereo mini jack to captive screw connectors
- Signals passed through unprocessed
- HDCP compliant
- EU faceplate dimensions: 8.1 x 8.1 x 0.2 cm (3.1” x 3.1” x 0.1”)
- MK faceplate dimensions: 8.5 x 8.5 x 0.2 cm (3.35” x 3.35” x 0.1”)
- Signals passed through unprocessed
- Available in white or RAL9010 white, depending on the model

WPC 210 A EU

WPC 210 A MK

Model	Version Description	Part Number
WPC 210 A EU	EU gang - RAL9010 White	70-990-05
WPC 210 A MK	MK gang - White	70-990-03

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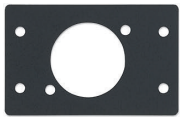
ARCHITECTURAL CONNECTIVITY

Blank Plate with One Neutrik Opening
Architectural Adapter Plate

Type: Installation
Size: Double Space

Black Part #
70-1019-02

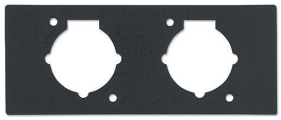
Blank Plate with One Neutrik Opening
Mini Architectural Adapter Plate



Type: Installation
Size: Double Space

Black Part #
70-1021-02

Blank Plate with Two Neutrik Openings
Architectural Adapter Plate



Type: Installation
Size: Double Space

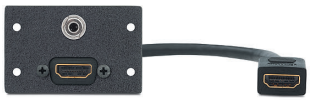
Black Part #
70-1020-02

One HDMI Female to One HDMI Female on 10” Pigtail, One 3.5 mm Stereo Mini Jack to Captive Screw
Architectural Adapter Plate

Type: Quick Connect/Installation
Size: Single Space

Black Part #
70-1017-02

One HDMI Female to One HDMI Female on 10” Pigtail, One 3.5 mm Stereo Mini Jack to Captive Screw
Mini Architectural Adapter Plate



Type: Quick Connect/Installation
Size: Single Space

Black Part #	White Part #
70-1018-02	70-1018-03

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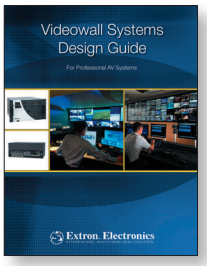
DESIGN AND EDUCATION RESOURCES

Videowall Systems Design Guide

A Comprehensive Resource for Videowall System Design

The Videowall System Design Guide is a comprehensive reference for AV professionals tasked with creating high performance videowall system designs, with in-depth coverage of essential topics such as room design, videowall processing features, display technology, system control, and cost of ownership

Call your Extron Representative for a copy.

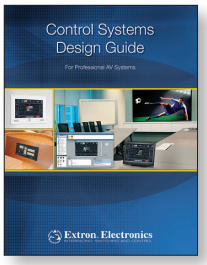


Control Systems Design Guide

AV Control System Design Strategies

This Guide offers an "insider's look" at what we consider the best methodologies for AV system design. It focuses on educating the control system designer, integrator, and consultant on the importance of designing for control, and helps the AV professional develop the required expertise to design functional, highly-effective, and intuitive control systems. This Guide includes sample AV system designs that focus on the control aspects of each system. Designs range from simple, single-projector classrooms, to large, sophisticated presentation environments, and emphasize the unique challenges of each type of application.

Call your Extron Representative for a copy.

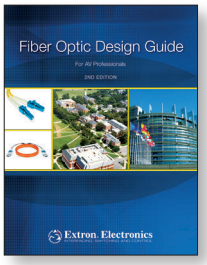


Fiber Optic Design Guide - Second Edition

A Guide to Fiber Optic AV System Design

This updated edition of the Extron Fiber Optic Design Guide is a complete reference tool for understanding and applying fiber optic solutions in real-world scenarios. Building upon the foundation established in the first edition, it is designed to help AV professionals of all levels enhance their ability to employ fiber optics in AV systems. With material ranging from technology fundamentals to advanced concepts, including system testing, this guide provides detailed yet practical approaches for a variety of system designs, and offers updated solutions using the extensive family of Extron fiber optic products.

Call your Extron Representative for a copy.

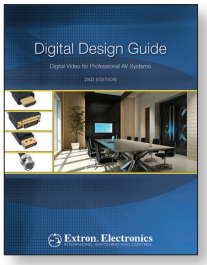


Digital Design Guide - Second Edition

Digital Video for Professional AV Systems

The Extron Digital Design Guide is an 80 page reference guide that provides comprehensive, in-depth coverage of the technical and design issues involved with the integration of digital video signals into AV systems for various markets. The material is presented in a clear and concise manner that allows readers at all levels of sales and design to gain valuable understanding of associated formats, standards, and design approaches.

Call your Extron Representative for a copy.

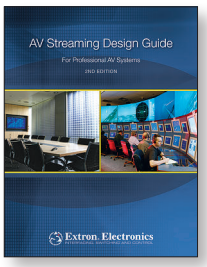


AV Streaming Design Guide - Second Edition

AV Streaming Over IP for the AV Professional

AV streaming technologies have been around for over a decade, yet only recently has video streaming found its way into the professional AV market. We designed the Extron AV Streaming Design Guide as an educational resource aimed at familiarizing AV professionals with the technologies, challenges, and potential applications of AV over IP streaming. Inside you'll find discussions on the differences between consumer and professional AV streaming, as well as the quality expectations and technologies associated with both. You will also find detailed system designs constructed from real-world applications utilizing Extron AV streaming solutions.

Call your Extron Representative for a copy.



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Extron CERTIFIED

XTP Systems Certification Program

Establish Your Knowledge of Digital Systems

The Extron XTP Systems Certification program involves online and instructor-led training for design and implementation of enterprise-wide digital systems based on Extron's XTP Systems. Step-by-step instruction provides a balanced approach to theory and hands-on application with an emphasis on the practical aspects of designing, installing, and supporting digital AV systems.

Successful completion of the XTP Systems Certification program ensures a thorough understanding of XTP System design and implementation, and provides recognition and validation of newly acquired expertise with digital applications.

Certification Categories

Extron XTP Systems Certification is awarded by discipline:

- **XTP Systems for Design Engineers: XTP-E**
- **XTP Systems for Technicians: XTP-T** Coming Soon

Certification Components

Online

Digital AV Technologies

The online course provides the learner an understanding of digital video and audio signal formats, the anatomy of a digital video signal, understanding EDID and defining how DRM impacts digital AV system design. It also provides insight into what to expect as the "analog sunset" continues to pass and how to identify digital issues found within professional AV systems as more components enter into the digital realm.

Note: The online component must be completed before registering for the instructor-led component of the XTP Systems Certification program.

Instructor-Led

XTP System Technologies for Design Engineers

Students attend concentrated two day instructor-led training and sit for a final exam in the student's core discipline. The instructor-led portion of the Extron XTP Systems Certification program consists of the following content:

Day 1: **XTP Systems Theory**

Students will gain a complete understanding of system design for Extron XTP Systems. Instruction includes the general principles of system management, maintenance, and support. This day concludes with an exam on learned content.

Day 2: **XTP Systems for Design Engineers: XTP-E**

Coursework covers complete XTP System design concepts, complex system configuration, and designing for real-world scenarios. The final exam for XTP-E certification is focused on system design and configuration.

How To Enroll

Contact your Extron Support Representative or visit www.extron.com/training/xtpcert click on the Enroll Now button on the right and an Extron Support Representative will contact you.

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